User's Guide for Nokia N95

CE 0434

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Contents

For your safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

SWITCH ON SAFELY Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

ROAD SAFETY COMES FIRST Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

INTERFERENCE All wireless devices may be susceptible to interference, which could affect performance.

SWITCH OFF IN HOSPITALS Follow any restrictions. Switch the device off near medical equipment.

SWITCH OFF IN AIRCRAFT Follow any restrictions. Wireless devices can cause interference in aircraft.

SWITCH OFF WHEN REFUELING Do not use the device at a refueling point. Do not use near fuel or chemicals.

SWITCH OFF NEAR BLASTING Follow any restrictions. Do not use the device where blasting is in progress.

USE SENSIBLY Use only in the normal position as explained in the product documentation. Do not touch the antenna unnecessarily.

QUALIFIED SERVICE Only qualified personnel may install or repair this product.

ENHANCEMENTS AND BATTERIES Use only approved enhancements and batteries. Do not connect incompatible products.

WATER-RESISTANCE Your device is not water-resistant. Keep it dry.

BACK-UP COPIES Remember to make back-up copies or keep a written record of all important information stored in your device.

CONNECTING TO OTHER DEVICES When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

EMERGENCY CALLS Ensure the phone function of the device is switched on and in service. Press the end key as many times as needed to clear the display and return to the standby mode. Enter the emergency number, then press the call key. Give your location. Do not end the call until given permission to do so.

About your device

The wireless device described in this guide is approved for use on the (E)GSM 850, 900, 1800, and 1900 and UMTS 2100 networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect local customs, privacy and legitimate rights of others, including copyrights.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred, or forwarded.

Your device supports internet connections and other methods of connectivity. Like computers, your device may be exposed to viruses, malicious messages and applications, and other harmful content. Exercise caution and open messages, accept connectivity requests, download content, and accept installations only from trustworthy sources. To increase the security of your device, consider installing antivirus software with a regular update service and using a firewall application.

Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

The office applications support common features of Microsoft Word, PowerPoint, and Excel (Microsoft Office 2000, XP, and 2003). Not all file formats can be viewed or modified.

During extended operation, such as an active video sharing session or high-speed data connection, the device may feel warm. In most cases, this condition is normal. If you suspect the device is not working properly, take it to the nearest authorised service facility.

Your device may have preinstalled bookmarks and links for third-party internet sites. You may also access other third-party sites through your device. Third-party sites are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you choose to access such sites, you should take precautions for security or content.

The images in this guide may differ from your device display.

Network services

To use the phone you must have service from a wireless service provider. Many of the features require special network features. These features are not available on all networks; other networks may require that you make specific arrangements with your service provider before you can use the network services. Your service provider can give you instructions and explain what charges will apply. Some networks may have limitations that affect how you can use network services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, these features will not appear on your device menu. Your device may also have a special configuration such as changes in menu names, menu order, and icons. Contact your service provider for more information.

This device supports WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols. Some features of this device, such as MMS, browsing, and e-mail require network support for these technologies.

Enhancements, batteries, and chargers

Always switch the device off and disconnect the charger before removing the battery.

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from a DC-4, AC-4, or AC-5 charger and from an AC-1, ACP-8, ACP-9, ACP-12, or LCH-12 charger when used with the CA-44 charger adapter.

The battery intended for use with this device is BL-5F.

Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Support

Model number: Nokia N95-1

Hereinafter referred to as Nokia N95.

Help

Your device has context-sensitive help. When an application is open, select **Options** > **Help** to access help for the current view.

When you are reading the instructions, to switch between help and the application that is open in the background, press and hold .

To open help from the main menu, select **Tools** > **Utilities** > **Help**. Select the desired application to view its help topics.

Get started

See the Get started guide for keys and parts information and instructions for setting up the device for use.

Additional applications

There are various applications provided by Nokia and different third-party software developers to help you do more with your Nokia N95. These applications are explained in the Additional applications leaflet which is available at the Nokia N95 product support pages at www.nokia-asia.com/N95/support or your local Nokia web site.

Your Nokia N95

Software updates

Nokia may produce software updates that may offer new features, enhanced functions, or improved performance. You may be able to request these updates through the Nokia Software Updater PC application. To update the device software, you need the Nokia Software Updater application and a compatible PC with Microsoft Windows 2000, XP, or Vista operating system, broadband internet access, and a compatible data cable to connect your device to the PC.

To get more information and to download the Nokia Software Updater application, visit www.nokia-asia.com/softwareupdate or your local Nokia web site.

Settings

Your device normally has MMS, GPRS, streaming, and mobile internet settings automatically configured in the device, based upon your wireless service provider information. You may have settings from your service providers already installed in your device, or you may receive or request the settings from the service providers as a special message.

Welcome

When you switch on your device for the first time, **Welcome** opens. Select from the following:

- **Sett. wizard** — to configure various settings. See the Additional applications leaflet.
- **Phone switch** — to transfer content, such as contacts and calendar entries, from a compatible Nokia device. See "Transfer content from another device", on page 1.

To open the **Welcome** later, press , and select **Tools** > **Utilities** > **Welcome**. You can also access the individual applications in their own menu locations.

For more information on **Settings wizard**, see the guides for your device at www.nokia-asia.com/N95/support or your local Nokia website.

Transfer content from another device

You can transfer content, such as contacts, from a compatible Nokia device to your Nokia N95 using Bluetooth connectivity or infrared. Your device notifies you if the other device is not compatible.

The type of content that can be transferred depends on the model of the device from which you want to transfer content. If the other device supports synchronisation, you can also synchronise data between the other device and your Nokia N95.

If the other device cannot be powered on without a SIM card, you can insert your SIM card in it. When Nokia N95 is switched on without a SIM card, the offline profile is automatically activated.

Transfer content

1 To use the application for the first time, on your Nokia N95, select it in the **Welcome** application, or press , and select **Tools** > **Utilities** > **Switch**. If you have used the application before and want to start a new transfer, select **Phone switch**.
2 Select whether you want to use Bluetooth connectivity or infrared to transfer the data. Both devices must support the selected connection type.
3 If you select Bluetooth connectivity:
   To have Nokia N95 search for devices with Bluetooth connectivity, select **Continue**. Select the device from which you want to transfer content from the list. You are asked to enter a code on your Nokia N95. Enter a code (1-16 digits), and select **OK**. Enter the same code on the other device, and select **OK**. The devices are now paired. See "Pair devices", on page 20.
   For some phone models, the **Phone switch** application is sent to the other device as a message. To install **Phone switch** on the other device, open the message, and follow the instructions on the display.
   If you select infrared, connect the two devices. See "Infrared connection", on page 22.
4 From your Nokia N95, select the content you want to transfer from the other device.

Content is transferred from the memory of the other device to the corresponding location in your Nokia N95. Transferring time depends on the amount of data to be transferred. You can cancel transferring and continue later.

If the other device supports synchronisation, you can keep the data up-to-date in both devices. To start a synchronisation with a compatible Nokia device, select **Phones**, scroll to the device, and select **Options** > **Synchronise**. Follow the instructions on the display.

The synchronisation is two-way, and the data in both devices is made the same. If an item is deleted from either device, it is deleted from the other device as well when synchronising; you cannot restore deleted items with synchronisation.

To view the log of a previous transfer, select **Transfer log**.

Essential indicators

The device is being used in a GSM network.

3G The device is being used in a UMTS network (network service).

You have one or more unread messages in the **Inbox** folder in **Messaging**.

You have received new e-mail in the remote mailbox.

There are messages waiting to be sent in the **Outbox** folder.

You have missed calls.

Shown if **Ringing type** is set to **Silent** and **Message alert tone**, and **E-mail alert tone** are set to **Off**.

The device keypad is locked.

A clock alarm is active.

2 The second phone line is being used (network service).

All calls to the device are diverted to another number. If you have two phone lines (network service), a number indicates the active line.

A compatible headset is connected to the device.

A compatible TV out cable is connected to the device.

A compatible **Text phone** is connected to the device.

D A data call is active.

A GPRS packet data connection is active. indicates the connection is on hold and that a connection is available.

A packet data connection is active in a part of the network that supports EGPRS. indicates the connection is on hold and that a connection is available. The icons indicate that EGPRS is available in the network, but your device is not necessarily using EGPRS in the data transfer.

A UMTS packet data connection is active. indicates the connection is on hold and that a connection is available.

You have set the device to scan for wireless LANs, and a wireless LAN is available. See "Wireless LAN", on page 16.

A wireless LAN connection is active in a network that has encryption.

A wireless LAN connection is active in a network that does not have encryption.

Bluetooth connectivity is on.

Data is being transmitted using Bluetooth connectivity. When the indicator is blinking, your device is trying to connect with another device.

A USB connection is active.

An infrared connection is active. If the indicator is blinking, the device is trying to connect to the other device or the connection has been lost.

Fast downloading

You can activate or deactivate support for high-speed downlink packet access (HSDPA, also called 3.5G) in the device settings. See "Packet data", on page 119.

HSDPA is a network service in UMTS networks and it provides high data download speed. When HSDPA support in the device is activated and the device is connected to a UMTS network that supports HSDPA, downloading data such as messages, e-mail, and browser pages through the cellular network may be faster.

For availability and subscription to data connection services, contact your service provider.

HSDPA only affects the download speed; sending data to the network, such as sending messages and e-mail, is not affected.

Volume and loudspeaker control

To increase or decrease the volume level when you have an active call or are listening to a sound, press the volume key.



The built-in loudspeaker allows you to speak and listen from a short distance without having to hold the device to your ear.

Warning: Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

To use the loudspeaker during a call, select **Options** > **Activate loudspeaker**.

To turn off the loudspeaker, select **Options** > **Activate handset**.

Multimedia menu

The multimedia menu provides quick access to multimedia content and predefined applications.

To open the multimedia menu, press , or when the device is in the standby mode, open the media keys under the 2-way slide.



To scroll in the multimedia menu, use the scroll key. To scroll faster, press and hold the key. To open an application, press .

To change the shown shortcuts, select **Options** > **Menu items**. You can delete, add, or rearrange shortcuts to applications, browser bookmarks, and radio channels defined in Visual Radio.

You can customise the appearance of the multimedia menu. To change the images shown in the background, select **Options** > **Background images** and the desired option. To set zooming and panning on or off, select **Options** > **Image effects**. To set sounds on or off, select **Options** > **Menu sounds**.

Keypad lock (keyguard)

To lock the keys, press , then .

To unlock the keys, open the 2-way slide, or press , then .

When the keys are locked, opening the camera lens cover unlocks the keys.

You can have the keypad lock activated automatically after a time-out or when the 2-way slide is closed. See "Security", on page 111.

When the keypad lock is on, calls may be possible to the official emergency number programmed into your device.

Gameplay

Your device is compatible with the N-Gage™ gaming experience. With N-Gage, you can download and play high-quality multiplayer games.

Your device includes either one of the following applications:

- Discover N-Gage application — With this preview application you can get information about the upcoming N-Gage gameplay experience, try out game demos, and download and install the full N-Gage application when it becomes available
- N-Gage application — The full featured application gives you access to the complete N-Gage experience replacing the Discover N-Gage application in the menu. You can find new games, try and buy games, find other players, and access scores, events, chat, and more.

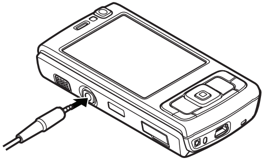
Press , and select **Games** to get started.

For the full N-Gage experience, you need internet access on your device, either through the cellular network or wireless LAN. Contact your service provider for more information on data services.

For more information, visit www.n-gage.com.

Headset

You can connect a compatible headset or compatible headphones to the Nokia AV Connector (3.5 mm) of your device. You may need to select the cable mode.



Do not connect products that create an output signal as this may cause damage to the device. Do not connect any voltage source to the Nokia AV Connector.

When connecting any external device or any headset, other than those approved by Nokia for use with this device, to the Nokia AV Connector, pay special attention to volume levels.

Warning: When you use the headset, your ability to hear outside sounds may be affected. Do not use the headset where it can endanger your safety.

To use a headset or headphones with a remote control unit, for example, the Nokia Audio Controller AD-43, connect the unit to the connector in the device, then connect the headset or headphones to the unit.

Some headsets do not include a microphone. For phone calls, use such a headset with a remote control unit or the microphone of the device.

When using certain headset enhancements, for example, the Nokia Audio Controller AD-43, to adjust the volume during a call, use the volume key in the device. The Nokia Audio Controller AD-43 has multimedia volume controls that are used to adjust the volume only for music or video playback.

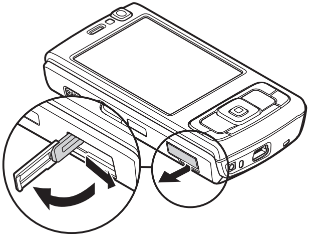
Memory card

Use only compatible microSD cards approved by Nokia for use with this device. Nokia uses approved industry standards for memory cards, but some brands may not be fully compatible with this device. Incompatible cards may damage the card and the device and corrupt data stored on the card.

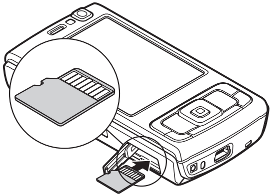
Keep all memory cards out of the reach of small children.

Insert the memory card

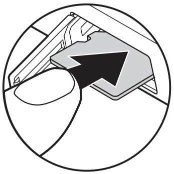
1 Place your finger in the recess below the door of the memory card slot, and lift the door. Pull the door to the right to reveal the hinge, and swing the door to the side.



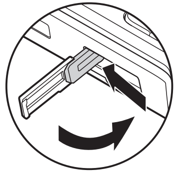
2 Insert a compatible memory card in the slot. Make sure that the contact area on the card is facing up and towards the slot.



3 Push the card in. You can hear a click when the card locks into place.



4 Push the hinge back in, and close the door. Ensure that the door is properly closed.



Eject the memory card

Important: Do not remove the memory card in the middle of an operation when the card is being accessed. Removing the card in the middle of an operation may damage the memory card as well as the device, and data stored on the card may be corrupted.

1 Before you eject the card, press ⏻, and select **Remove memory card**. All applications are closed.
2 When **Removing memory card will close all open applications. Remove anyway?** is displayed, select **Yes**.
3 When **Remove memory card and press 'OK'** is displayed, open the door of the memory card slot.
4 Press the memory card to release it from the slot.
5 Pull out the memory card. If the device is switched on, select **OK**.

Memory card tool

Press , and select **Tools** > **Utilities** > **Memory**.

To back up information from the device memory to a compatible memory card (if available), select **Options** > **Back up phone memory**. The device notifies you if the memory card does not have enough free space to create a back-up.

To restore information from the compatible memory card to the device memory, select **Options** > **Restore from card**.

When a memory card is reformatted, all data on the card is permanently lost. Some memory cards are supplied preformatted and others require formatting. Consult your retailer to find out if you must format the memory card before you can use it.

To format a memory card, select **Options** > **Format memory card**. Select **Yes** to confirm.

File manager

To browse files and folders in the device memory or on a compatible memory card (if inserted), press , and select **Tools** > **File mgr.**. The device memory view ( ) opens. Press to open the memory card view ( ), if available.

To mark several files, press and hold while you press , , or . To move or copy the files to a folder, select **Options** > **Move to folder** or **Copy to folder**.

To find a file, select **Options** > **Find** and the memory from which to search. Enter a search text that matches the file name.

To view what types of data you have in the device and how much memory the different data types consume, select **Options** > **Memory details**. The amount of available free memory is shown in **Free memory**.

Memory low — free memory

Many features of the device use memory to store data. The device notifies you if the device or the memory card memory is low.

To free device memory, transfer data to a compatible memory card (if available) or to a compatible PC.

To remove data to free memory, use **File mgr.** to delete files you no longer need, or go to the respective application. For example, you can remove the following:

- Messages in the folders in **Messaging** and retrieved e-mail messages from the mailbox
- Saved web pages
- Contact information
- Calendar notes

- Applications shown in **App. mgr.** that you do not need
- Installation files (.sis) of applications you have installed to a compatible memory card; first back up the installation files to a compatible PC

Download!

With **Download!** (network service) you can discover; preview; buy; download; and upgrade content, services, and applications that work with your Nokia N95. Games, ringing tones, wallpapers, applications, and much more are easily accessible.

Press , and select **Download!**. The items are categorized under catalogs and folders provided by different service providers. The available content depends on your service provider. Some items may be chargeable, but you can usually preview them free of charge.

Web browser

Press , and select **Web** (network service).

Shortcut: To start **Web**, press and hold 0 in the standby mode.

With **Web**, you can view hypertext markup language (HTML) web pages on the internet as originally designed. You can also browse web pages that are designed specifically for mobile devices, and use extensible hypertext markup language (XHTML), or the wireless markup language (WML).

With **Web**, you can zoom in and out on a page, use **Mini map** and **Page overview** to navigate on pages, read web feeds and blogs, bookmark web pages, and download content, for example.

Check the availability of services, pricing, and fees with your service provider. Service providers will also give you instructions on how to use their services.

To use **Web**, you need an access point to connect to internet. See "Access points", on page 117.

Connection security

If the security indicator is displayed during a connection, the data transmission between the device and the internet gateway or server is encrypted.

The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.

Security certificates may be required for some services, such as banking services. You are notified if the identity of the server is not authentic or if you do not have the correct security certificate in your device. For more information, contact your service provider. See also "Certificate management", on page 112 for more information on the certificates and certificate details.

Bookmarks view

The bookmarks view allows you to select web addresses from a list or from a collection of bookmarks in the **Auto. Bookmarks** folder. You can also enter the URL address of the web page you want to visit directly into the field ( ).

indicates the starting page defined for the default access point.

You can save URL addresses as bookmarks while browsing on the internet. You can also save addresses received in messages to your bookmarks and send saved bookmarks.

Your device may have preinstalled bookmarks and links for third-party internet sites. You may also access other third-party sites through your device. Third-party sites are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you choose to access such sites, you should take precautions for security or content.

To open the bookmarks view while browsing, press **1**, or select **Options** > **Bookmarks**.

To edit the details of a bookmark, such as the title, select **Options** > **Bookmark manager** > **Edit**.

In the bookmarks view, you can also enter other browser folders. **Web** allows you to save web pages during browsing. In the **Saved pages** folder, you can view the content of the pages you have saved offline.

Web also keeps track of the web pages you visit during browsing. In the **Auto. Bookmarks** folder, you can view the list of visited web pages.

In **Web Feeds**, you can view saved links to web feeds and blogs to which you have subscribed. Web feeds are commonly found on major news organisation web pages, personal weblogs, online communities that offer latest headlines, and article summaries. Web feeds use RSS and ATOM technologies.

Browse the web

Important: Use only services that you trust and that offer adequate security and protection against harmful software.

With **Web**, you can view web pages as they are originally designed. To browse a web page, in the bookmarks view, select a bookmark, or enter the address in the field ( ). Then press .

Some web pages may contain material, such as graphics and sounds, that requires a large amount of memory to view. If your device runs out of memory while loading such a page, the graphics on the page are not shown. To browse web pages without graphics to save memory, select **Options** > **Settings** > **Page** > **Load content** > **Text only**.

Tip! To return to the standby mode with the browser open in the background, press twice or . To return to the browser, press and hold , and select the browser from the list.

To open links and make selections, press .

To enter a new web page address you want to visit, select **Options** > **Go to web address**.

Tip! To visit a web page saved as bookmark in the bookmarks view, while browsing, press **1**, and select a bookmark.

To retrieve the latest content of the page from the server, select **Options** > **Navigation options** > **Reload**.

To save the web address of the current page as bookmark, select **Options** > **Save as bookmark**.

To use Visual history to view snapshots of the pages you have visited during the current browsing session, select **Back** (available if **History list** is set on in the browser settings). To go to a previously visited page, select the page.

To save a page while browsing, select **Options** > **Tools** > **Save page**. You can save pages to the device memory or compatible memory card (if inserted), and browse them when offline. You can also group the pages into folders. To access the pages later, in the bookmarks view, select **Saved pages**.

To open a sublist of commands or actions for the currently open page, select **Options** > **Service options** (if supported by the web page).

To allow or prevent the automatic opening of multiple windows, select **Options** > **Window** > **Block pop-ups** or **Allow pop-ups**.

Shortcuts while browsing are as follows:

- Press **1** to open your bookmarks.
- Press **2** to search for keywords in the current page.
- Press **3** to return to the previous page.
- Press **5** to list all open windows.
- Press **8** to show the page overview of the current page. Press **8** again to zoom in and view the desired section of the page.
- Press **9** to enter a new web address.
- Press **0** to go to the start page.
- Press * or # to zoom the page in or out.

Text search

To search for keywords within the current web page, select **Options** > **Find** > **Text**, and enter a keyword. To go to the previous match, press ▲. To go to the next match, press ▼.

Tip! To search for keywords within the page, press **2** .

Browser toolbar

With the toolbar, you can select most frequently used features in the browser. To open the toolbar, press ● on an empty spot on a web page. To move within the toolbar, press ◄ or ►, To select a feature, press ●.

In the toolbar, select from the following:

- **Frequently used links** to view a list of the web addresses you visit frequently
- **Page overview** to view the overview of the current web page

- **Find** to search for keywords within the current page
- **Reload** to refresh the page
- **Subscribe** (if available) to view a list of available web feeds on the current web page, and subscribe to a web feed

Download and purchase items

You can download items such as ringing tones, images, operator logos, themes, and video clips. These items can be provided free of charge, or you can purchase them. Downloaded items are handled by the respective applications in your device, for example, a downloaded photo or an .mp3 file can be saved in **Gallery**.

Important: Only install and use applications and other software from trusted sources, such as applications that are Symbian Signed or have passed the Java Verified™ testing.

1. To download the item, select the link.
2. Select the appropriate option to purchase the item (for example, "Buy").
3. Carefully read all the information provided.
   To continue the download, select **Accept**. To cancel the download, select **Cancel**.

When you start a download, a list of ongoing and completed downloads from the current browsing session is displayed. To also view the list, select **Options** > **Downloads**. In the list, scroll to an item, and select **Options** to cancel ongoing downloads, or open, save, or delete completed downloads.

Mini map

Mini map helps you to navigate on web pages that contain large amount of information. When **Mini map** is set on in the browser settings and you scroll through a large web page, **Mini map** opens and shows an overview of the web page you browse. To scroll in **Mini map**, press , , , or . When you find the desired location, stop scrolling, and **Mini map** disappears and leaves you at the selected location.

To set **Mini map** on, select **Options** > **Settings** > **General** > **Mini map** > **On**.

Page overview

When you are browsing a web page that contains a large amount of information, you can use **Page overview** to view what kind of information the page contains.

To show the page overview of the current page, press **8**. To find the desired spot on the page, press , , , or . Press **8** again to zoom in and view the desired section of the page.

Web feeds and blogs

Web feeds are xml files on web pages that are widely used by the weblog community and news organisations to share the latest entry headlines or full text, for example, recent news in the form of news feeds. Blogs or weblogs are web diaries. Most of the web feeds use RSS and ATOM technologies. It is common to find web feeds on web, blog, and wiki pages.

Web automatically detects if a web page contains web feeds. To subscribe to a web feed, select **Options** > **Subscribe**, or click on the link. To view the web feeds to which you have subscribed, in the bookmarks view, select **Web feeds**.

To update a web feed, select it, and **Options** > **Refresh**.

To define how the web feeds are updated, select **Options** > **Settings** > **Web feeds**. See "Settings", on page 14.

End connection

To end the connection and view the browser page offline, select **Options** > **Tools** > **Disconnect**; or to end the connection and close the browser, select **Options** > **Exit**.

Pressing ↲ does not end the connection but takes the browser to the background.

To delete the information the network server collects about your visits to various web pages, select **Options** > **Clear privacy data** > **Delete cookies**.

Empty the cache

The information or services you have accessed are stored in the cache memory of the device.

A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. The information or services you have accessed are stored in the cache. To empty the cache, select **Options** > **Clear privacy data** > **Clear cache**.

Settings

Select **Options** > **Settings** and from the following:

General settings

Access point — Change the default access point. See "Connection", on page 116. Some or all access points may be preset for your device by your service provider; you may not be able to change, create, edit, or remove them.

Homepage — Define the home page.

Mini map — Set **Mini map** on or off. See "Mini map", on page 13.

History list — While browsing, to use the selection key **Back** to see a list of the pages you have visited during the current browsing session, set **History list** on.

Security warnings — Hide or show security notifications.

Java/ECMA script — Enable or disable the use of scripts.

Page settings

Load images and sounds — Select whether you want to load images and other objects while browsing. If you select **No**, to load images or objects later during browsing, select **Options** > **Tools** > **Load images**.

Screen size — Select between **Full screen** and the normal view with the options list.

Default encoding — If text characters are not shown correctly, you can select another encoding according to language for the current page.

Block pop-ups — Allow or block automatic opening of different pop-ups while browsing.

Automatic reload — If you want the web pages to be refreshed automatically while browsing, select **On**.

Font size — Define the font size that is used for web pages.

Privacy settings

Auto. bookmarks — Enable or disable automatic bookmark collecting. If you want to continue saving the addresses of the visited web pages into the **Auto. Bookmarks** folder, but hide the folder from the bookmarks view, select **Hide folder**.

Form data saving — If you do not want the data you enter to different forms on a web page to be saved and used next time the page is entered, select **Off**.

Cookies — Enable or disable the receiving and sending of cookies.

Web feeds settings

Automatic updates — Define whether you want the web feeds to be updated automatically or not, and how often you want to update them. Setting the application to retrieve web feeds automatically may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Acc. point for auto-update (only available when **Automatic updates** is on) — Select the desired access point for updating.

Connections

Wireless LAN

Your device supports wireless local area network (WLAN). With WLAN, you can connect your device to the internet and compatible devices that have WLAN. For information about using your device with other compatible Universal Plug and Play (UPnP) devices through WLAN, see "Home network", on page 57.

To use WLAN, it must be available in the location and your device must be connected to the WLAN.

Some places, like France, have restrictions on the use of WLAN. Check with your local authorities for more information.

Features using WLAN, or allowing such features to run in the background while using other features, increase the demand on battery power and reduce the battery life.

Your device supports the following WLAN features:

- IEEE 802.11b/g standard
- Operation at a frequency of 2.4 GHz
- Wired equivalent privacy (WEP) with keys up to 128 bits, Wi-Fi protected access (WPA), and 802.1x encryption methods. These functions can be used only if they are supported by the network.

Wireless LAN connections

To use WLAN, you must create an internet access point (IAP) in a WLAN. Use the access point for applications that need to connect to the internet. See "WLAN internet access points", on page 17.

Important: Always enable one of the available encryption methods to increase the security of your WLAN connection. Using encryption reduces the risk of unauthorised access to your data.

A WLAN connection is established when you create a data connection using a WLAN internet access point. The active WLAN connection ends when you end the data connection. To end the connection, see "Connection manager", on page 18.

You can use WLAN during a voice call or when packet data is active. You can only be connected to one WLAN access point device at a time, but several applications can use the same internet access point.

When the device is in the **Offline** profile, you can still use WLAN (if available). Remember to comply with any applicable safety requirements when establishing and using a WLAN connection.

Tip! To check the unique media access control (MAC) address that identifies your device, enter ***#62209526#** in the standby mode.

WLAN wizard

The WLAN wizard helps you to connect to a WLAN and manage your WLAN connections.

The WLAN wizard shows the status of your WLAN connections in the active standby mode. To view the available options, scroll to the row showing the status, and press ◉.

If the search results of found WLANs, for example, **WLAN network found** are displayed, to create an internet access point and start the web browser using this IAP, select the status, the option **Start web browsing**, and the network.

If you select a secured WLAN network, you are asked to enter the relevant passcodes. To connect to a hidden network, you must enter the correct network name (service set identifier, SSID). To create a new access point for hidden WLAN, select **New WLAN**.

If you are connected to a WLAN, the IAP name is displayed. To start the web browser using this IAP, select the status and the option **Cont. Web browsing**. To end the connection in the WLAN, select the status and the option **Disconnect WLAN**.

If WLAN scanning is off and you are not connected to any WLAN, **WLAN scanning off** is displayed. To set scanning on and search for available WLANs, select the status and press ◉.

To start a search for available WLANs, select a status and the option **Search for WLAN**. To set WLAN scanning off, select a status and the option **Switch WLAN scan off**.

To access the WLAN wizard in the menu, press , and select **Tools** > **WLAN wiz.**

WLAN internet access points

To search for WLANs available within range, press , and select **Tools** > **WLAN wiz.**.

Select **Options** and select from the following:

- **Filter WLAN networks** — Filter out WLANs in the list of found networks. The selected networks are filtered out the next time the application searches for WLANs.
- **Details** — View the details of a network shown in the list. If you select an active connection, the connection details are displayed.
- **Define access point** — Create an internet access point (IAP) in a WLAN.
- **Edit access point** — Edit the details of an existing IAP.

You can also use **Conn. mgr.** to create internet access points. See "Wireless LAN", on page 18.

Operating modes

There are two operating modes in WLAN: infrastructure and ad hoc.

The infrastructure operating mode allows two kinds of communication: wireless devices are connected to each other through a WLAN access point device, or wireless devices are connected to a wired LAN through a WLAN access point device.

In the ad hoc operating mode, devices can send and receive data directly with each other. To create an internet access point for an ad hoc network, see "Access points", on page 117.

Connection manager

Data connections

Press , and select **Tools** > **Connectivity** > **Conn. mgr.** > **Active data connections**. In the active connections view, you can see the open data connections: data calls (D), packet data connections (or), and WLAN connections ().

Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding off for billing, and so forth.

To end a connection, select **Options** > **Disconnect**. To close all open connections, select **Options** > **Disconnect all**.

To view the details of a connection, select **Options** > **Details**. The details shown depend on the connection type.

Wireless LAN

To search for WLANs available within range, press , and select **Tools** > **Conn. mgr.** > **Available WLAN networks**.

The available WLAN view shows a list of WLANs within range, their network mode (**Infrastructure** or **Ad-hoc**), and signal strength indicator. is shown for networks with encryption, and if your device has an active connection in the network.

To view the details of a network, select **Options** > **Details**.

To create an internet access point in a network, select **Options** > **Define access point**.

Bluetooth connectivity

You can connect wirelessly to other compatible devices with wireless Bluetooth technology. Compatible devices may include mobile phones, computers, and enhancements such as headsets and car kits. You can use Bluetooth connectivity to send images, video clips, music and sound clips, and notes; connect wirelessly to your compatible PC

(for example, to transfer files); connect to a compatible printer to print images with **Image print**. See "Image print", on page 55.

Since devices with Bluetooth wireless technology communicate using radio waves, your device and the other device do not need to be in direct line-of-sight. The two devices only need to be within 10 meters (33 feet) of each other, but the connection may be subject to interference from obstructions such as walls or from other electronic devices.

This device is compliant with Bluetooth Specification 2.0 supporting the following profiles: Advanced Audio Distribution Profile, Audio/Video Remote Control Profile, Basic Imaging Profile, Basic Printing Profile, Dial-up Networking Profile, File Transfer Profile, Hands-Free Profile, Headset Profile, Human Interface Device Profile, Object Push Profile, SIM Access profile, and Synchronisation Profile. To ensure interoperability between other devices supporting Bluetooth technology, use Nokia approved enhancements for this model. Check with the manufacturers of other devices to determine their compatibility with this device.

There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or service provider.

Features using Bluetooth technology, or allowing such features to run in the background while using other features, increase the demand on battery power and reduce the battery life.

When the device is locked, you cannot use Bluetooth connectivity. See "Phone and SIM card", on page 111 for more information on locking the device.

Settings

Press , and select **Tools** > **Bluetooth**. When you open the application for the first time, you are asked to define a name for your device.

Select from the following:

Bluetooth — To connect wirelessly to another compatible device, first set Bluetooth connectivity **On**, then establish a connection. To switch off Bluetooth connectivity, select **Off**.

My phone's visibility — To allow your device to be found by other devices with Bluetooth wireless technology, select **Shown to all**. To set a time after which the visibility is set from shown to hidden, select **Define period**. To hide your device from other devices, select **Hidden**.

My phone's name — Edit the name shown to other devices using Bluetooth wireless technology.

Remote SIM mode — To enable another device, such as a compatible car kit enhancement, to use the SIM card in your device to connect to the network, select **On**. For more information, see "Remote SIM mode", on page 21.

Security tips

When you are not using Bluetooth connectivity, select **Bluetooth** > **Off** or **My phone's visibility** > **Hidden**. In this way, you can better control who can find your device with Bluetooth wireless technology, and connect to it.

Do not pair with or accept connection requests from an unknown device. In this way, you can better protect your device from harmful content.

Send data using Bluetooth connectivity

Several Bluetooth connections can be active at a time. For example, if you are connected to a compatible headset, you can also transfer files to another compatible device at the same time.

For Bluetooth connectivity indicators, see "Essential indicators", on page 18.

Tip! To send text using Bluetooth connectivity, open **Notes**, write the text, and select **Options** > **Send** > **Via Bluetooth**.

1. Open the application where the item you want to send is stored. For example, to send an image to another compatible device, open **Gallery**.
2. Select the item and **Options** > **Send** > **Via Bluetooth**. Devices with Bluetooth wireless technology within range start to appear on the display.
   Device icons: computer, phone, audio or video device, and other device.
   To interrupt the search, select **Stop**.
3. Select the device with which you want to connect.
4. If the other device requires pairing before data can be transmitted, a tone sounds, and you are asked to enter a passcode. See "Pair devices", on page 20.
5. When the connection has been established, **Sending data** is shown.

Tip! When searching for devices, some devices may show only the unique address (device address). To find the unique address of your device, enter the code ***#2820#** in the standby mode.

Pair devices

To pair with compatible devices and view your paired devices, in the **Bluetooth** application main view, press .

Before pairing, create your own passcode (1-16 digits), and agree with the owner of the other device to use the same code. Devices that do not have a user interface have a factory-set passcode. The passcode is used only once.

1 To pair with a device, select **Options** > **New paired device**. Devices with Bluetooth wireless technology within range start to appear on the display.
2 Select the device, and enter the passcode. The same passcode must be entered on the other device as well.

Some audio enhancements connect automatically to your device after pairing. Otherwise, scroll to the enhancement, and select **Options** > **Connect to audio device**.

Paired devices are indicated by ✱✱ in the device search.

To set a device as authorised or unauthorised, scroll to a device, and select from the following options:

Set as authorised — Connections between your device and this device can be made without your knowledge. No separate acceptance or authorisation is needed. Use this status for your own devices, such as your compatible headset or PC, or devices that belong to someone you trust. indicates authorised devices in the paired devices view.

Set as unauthorised — Connection requests from this device must be accepted separately every time.

To cancel a pairing, scroll to the device, and select **Options** > **Delete**. If you want to cancel all pairings, select **Options** > **Delete all**.

Receive data using Bluetooth connectivity

When you receive data through Bluetooth connectivity, a tone sounds, and you are asked if you want to accept the message. If you accept, ✉ is shown, and the item is placed in the **Inbox** folder in **Messaging**. Messages received through Bluetooth connectivity are indicated by . See "Inbox — receive messages", on page 80.

Remote SIM mode

To use the remote SIM mode with a compatible car kit enhancement, set Bluetooth connectivity on, and enable the use of the remote SIM mode with your device. See "Settings", on page 19. Before the mode can be activated, the two devices must be paired and the pairing initiated from the other device. When pairing, use a 16-digit passcode, and set the other device as authorised. See "Pair devices", on page 20. Activate the remote SIM mode from the other device.

When remote SIM mode is on in your device, **Remote SIM** is displayed in the standby mode. The connection to the wireless network is turned off, as indicated by ✖ in the signal strength indicator area, and you cannot use SIM card services or features requiring cellular network coverage.

When the wireless device is in the remote SIM mode, you can only use a compatible connected enhancement, such as a car kit, to make or receive calls. Your wireless device will not make any calls, except to the emergency numbers programmed into your device, while in this mode. To make calls from your device, you must first leave the remote SIM mode. If the device has been locked, enter the lock code to unlock it first.

To leave the remote SIM mode, press the power key, and select **Exit remote SIM mode**.

Infrared connection

With infrared, you can transfer data such as business cards, calendar notes, and media files with a compatible device.

Do not point the infrared (IR) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 laser product.

Send and receive data using infrared

1. Make sure that the infrared ports of the sending and receiving devices are pointing at each other, and that there are no obstructions between the devices. The preferable distance between the two devices is up to 1 meter (3 feet).
2. The user of the receiving device activates the infrared port.
   To activate the infrared port of your device to receive data through infrared, press , and select **Tools** > **Connectivity** > **Infrared**.
3. The user of the sending device selects the desired infrared function to start the data transfer.
   To send data through infrared, locate the desired file in an application or the file manager, and select **Options** > **Send** > **Via infrared**.

If data transfer is not started within 1 minute after the activation of the infrared port, the connection is cancelled and must be started again.

Items received through infrared are placed in the **Inbox** folder in **Messaging**. New infrared messages are indicated by .

For infrared connection indicators, see "Essential indicators", on page 18.

USB

Press , and select **Tools** > **Connectivity** > **USB**.

To have the device ask the purpose of the USB cable connection each time the cable is connected, select **Ask on connection** > **Yes**.

If **Ask on connection** is set to off or you want to change the mode during an active connection, select **USB mode** and from the following:

Media player — to synchronise music with Windows Media Player. See "Music transfer with Windows Media Player", on page 28.

PC Suite — to use Nokia PC applications such as Nokia Nseries PC Suite, Nokia Lifeblog, and Nokia Software Updater

Data transfer — to transfer data between your device and a compatible PC

Image print — to print images on a compatible printer. See "Image print", on page 55.

PC connections

You can use your device with a variety of compatible PC connectivity and data communications applications. With Nokia Nseries PC Suite you can, for example, transfer images between your device and a compatible PC.

Always create the connection from the PC to synchronise with your device.

Synchronisation

Sync enables you to synchronise your notes, calendar, text messages, or contacts with various compatible applications on a compatible computer or on the internet.

You may receive synchronisation settings in a special message. See "Data and settings", on page 80.

In the **Sync** main view, you can see the different synchronisation profiles. A synchronisation profile contains the necessary settings to synchronise data in your device with a remote database on a server or compatible device.

1 Press , and select **Tools** > **Sync**.
2 Select a synchronisation profile and **Options** > **Synchronise**. To cancel synchronisation before it finishes, select **Cancel**.

Device manager

To connect to a server and receive configuration settings for your device, to create new server profiles, or to view and manage existing server profiles, press , and select **Tools** > **Utilities** > **Device mgr.**.

You may receive server profiles and different configuration settings from your service providers and company information management department. These configuration

settings may include connection and other settings used by different applications in your device.

Scroll to a server profile, and select **Options** and from the following:

Start configuration — to connect to the server and receive configuration settings for your device

New server profile — to create a server profile

To delete a server profile, scroll to it, and press C.

Modem

Press , and select **Tools** > **Connectivity** > **Modem**. To connect your device to a compatible PC through infrared to use it as a modem, press . For how to connect the devices, see "Infrared connection", on page 22.

Media applications

Music player

Music player supports files formats such as AAC, AAC+, eAAC+, MP3, and WMA. **Music player** does not necessarily support all features of a file format or all the variations of file formats.

You can also use Music player to listen to podcast episodes. Podcasting is the method for delivering audio or video content over the internet using either RSS or ATOM technologies for playback on mobile devices and PCs.

Warning: Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing. Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

For how to add songs to your device, see "Transfer music", on page 27.

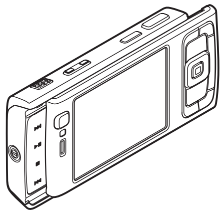
For more information about copyright protection, see "Digital rights management", on page 107.

To refresh the library after you have updated the song selection in your device, in the Music player main view, select **Options** > **Refresh**.

Play a song

Tip! To open the music player, press and hold . You can also open the player from the multimedia menu. See "Multimedia menu", on page 4.

1 Press , and select **Music** > **Music player**.
2 Open the media keys under the 2-way slide.
3 Select a song, artist, or other category.
4 To play the selected song or list of songs, press ▶❚❚.



To pause playback, press ▶❚❚, and to resume, press ▶❚❚ again. To stop playback, press ■.



To fast forward or rewind, press and hold ▶▶❚ or ❚◀◀.

To go to the next song, press ▶▶❚. To return to the beginning of the song,

press ⏮. To skip to the previous song, press ⏮ again within 2 seconds after a song has started.

You can also use the scroll key to control the player.

To switch random play (shuffle icon) on or off, select **Options** > **Shuffle**.

To repeat the current song (repeat-one icon), all songs (repeat-all icon), or to switch repeat off, select **Options** > **Repeat**.

To adjust the volume, use the volume key.

To modify the tone of the music playback, select **Options** > **Equaliser**.

To modify the balance, loudness, and stereo image, or to enhance bass, select **Options** > **Audio settings**.

To view a visualization during playback, select **Options** > **Start visualisation**.

To return to the standby mode and leave the player playing in the background, press (end key), or to switch to another open application, press and hold (menu key).

Music menu

To select more music to play in **Now playing** view, select **Options** > **Go to Music menu**.

The music menu shows the music available in the device and compatible memory card (if inserted). **All songs** lists all music. To view sorted songs, select **Albums**, **Artists**, **Genres**, or **Composers**. To view playlists, select **Playlists**.

To open the view that displays the currently playing song, press and hold (scroll key).

Playlists

To view and manage playlists, in the music menu, select **Playlists**. The following playlists appear automatically: **Most played tracks**, **Recently played songs**, and **Recent additions**.

To view details of the playlist, select **Options** > **Playlist details**.

Create a playlist

1 Select **Options** > **Create playlist**.
2 Enter a name for the playlist, and select **OK**.
3 Select artists to find the songs you want to include in the playlist. Press (scroll key) to add items. To show the song list under an artist title, press (scroll right). To hide the song list, press (scroll left).
4 When you have made your selections, select **Done**. If a compatible memory card is inserted, the playlist is saved to the memory card.

To add more songs later, when viewing the playlist, select **Options** > **Add songs**.

To add songs, albums, artists, genres, and composers to a playlist from the different views of the music menu, select

an item and **Options** > **Add to a playlist** > **Saved playlist** or **New playlist**.

To remove a song from a playlist, select **Options** > **Remove from playlist**. This deletion does not delete the song from the device; it only removes it from the playlist.

To reorder songs in a playlist, scroll to the song you want to move, and select **Options** > **Reorder list**. To grab songs and drop them to a new position, use the scroll key.

Nokia Music Store

In the Nokia Music Store (network service) you can search, browse, and purchase music to download to your device. To purchase music, you first need to register for the service.

To check the Nokia Music Store availability in your country, visit music.nokia.com.

To access the Nokia Music Store, you must have a valid internet access point in the device. For more details, see "Access points", on page 117.

To open the Nokia Music Store, press , and select **Music** > **Music store**. In the main page, select **Help** for further instructions.

Tip! To find more music in different categories of the music menu, select **Options** > **Go to Music store** in the music player.

Music store settings

You may be asked to enter the following settings:

Default acc. pt. — Select the access point to use when connecting to the music store.

In the music store, you may be able to edit the settings by selecting **Options** > **Settings**.

You can also access the Nokia Music Store from your compatible PC at music.nokia.com. In the main page, select **Help** for further instructions.

Transfer music

You can transfer music from a compatible PC or other compatible devices using a compatible USB cable or Bluetooth connectivity. For details, see "Bluetooth connectivity", on page 18.

To refresh the library after you have updated the song selection in your device, in the **Music menu**, select **Options** > **Refresh Music library**.

The requirements of the PC for music transfer:

- Microsoft Windows XP operating system (or later)
- A compatible version of Windows Media Player application. You can get more detailed information about Windows Media Player compatibility from the Nokia N95 section of the Nokia website.
- Nokia Nseries PC Suite version no. 1.6 or later

Transfer music from PC

You can use three different methods to transfer music:

- To view your device on PC as an external hard drive where you can transfer any data files, make the connection with a compatible USB cable or Bluetooth connectivity. If you are using the USB cable, select **Data transfer** as the connection mode. A compatible memory card needs to be inserted in the device.
- To synchronise music with Windows Media Player, connect the compatible USB cable and select **Media player** as the connection mode. A compatible memory card needs to be inserted in the device.
- To use Nokia Music Manager in Nokia Nseries PC Suite, connect the compatible USB cable and select **PC Suite** as the connection mode.

To change the default USB connection mode, press , select **Tools** > **Connectivity** > **USB** > **USB mode**.

Both Windows Media Player and Nokia Music Manager in Nokia Nseries PC Suite have been optimized for transferring music files. For information about transferring music with Nokia Music Manager, see the Nokia Nseries PC Suite user guide.

Music transfer with Windows Media Player

The functionality of the music synchronisation may vary between different versions of the Windows Media Player application. For more information, see the corresponding Windows Media Player guides and helps.

Manual synchronisation

With manual synchronisation, you can select the songs and playlists that you want to move, copy, or remove.

1. After your device is connected with Windows Media Player, select your device in the navigation pane on the right, if more than one device is connected.
2. In the left navigation pane, browse the music files on your PC which you want to synchronise.
3. Drag and drop songs to the **Sync List** on the right.

   You can see the amount of available memory in your device above the **Sync List**.
4. To remove songs or albums, select an item in the **Sync List**, right-click, and select **Remove from list**.
5. To start the synchronisation, click **Start Sync**.

Automatic synchronisation

1. To activate the automatic synchronisation function in Windows Media Player, click the **Sync** tab, select **Nokia Handset** > **Set Up Sync...**, and check the **Sync this device automatically** check box.

2. Select the playlists you want to synchronise automatically in the **Available playlists** pane, and click **Add**.

   The selected items are transferred to the **Playlists to sync** pane.

3. To finalise the setup for automatic synchronisation, click **Finish**.

If the **Sync this device automatically** check box is selected and you connect your device, the music library in your device is automatically updated based on playlists you have selected in Windows Media Player. If no playlists have been selected, the whole PC music library is selected for synchronisation. If there is not enough free memory in your device, Windows Media Player selects manual synchronisation automatically.

To stop automatic synchronisation, click the Sync tab, and select Stop Sync to "Nokia Handset".

Radio



Press , and select **Music** > **Radio**.

When you open Visual Radio for the first time, a wizard helps you to save local stations.

You can use the application as a traditional FM radio with automatic tuning and saved stations, or with parallel visual information related to the radio program on the display, if you tune to stations that offer Visual Radio service. The Visual Radio service uses packet data (network service). You can listen to the FM radio while using other applications.

You can see the latest list of all the stations that offer Visual Radio service at http://www.visualradio.com.

If you do not have access to the Visual Radio service, the operators and radio stations in your area may not support Visual Radio.

To check availability and costs, and to subscribe to the service, contact your service provider.

You can normally make a call or answer an incoming call while listening to the radio. The radio is muted when there is an active call.

Listen to the radio

Note that the quality of the radio broadcast depends on the coverage of the radio station in that particular area.

The FM radio depends on an antenna other than the wireless device antenna. A compatible headset or enhancement needs to be attached to the device for the FM radio to function properly.

Press , and select **Music** > **Radio**. To start a station search, select or , or press and hold the media

keys or . To change the frequency manually, select **Options** > **Manual tuning**.

If you have previously saved radio stations, to go to the next or previous saved station, select or , or press the media keys or .

To adjust the volume, press the volume keys.

To listen to the radio using the loudspeaker, select **Options** > **Activate loudspeaker**.

Warning: Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing. Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

To view available stations based on location, select **Options** > **Station directory** (network service).

To save the current tuned station to your station list, select **Options** > **Save station**. To open the list of your saved stations, select **Options** > **Stations**.

To return to the standby mode and leave the FM radio playing in the background, select **Options** > **Play in background**.

View visual content

To view available visual content for a tuned station, select or **Options** > **Start visual service**. If the visual service ID has not been saved for the station, enter it, or select **Retrieve** to search for it in the station directory (network service).

When the connection to the visual service is established, the display shows the current visual content.

Saved stations

To open the list of your saved stations, select **Options** > **Stations**.

To listen to a saved station, select **Options** > **Station** > **Listen**. To view available visual content for a station with Visual Radio service, select **Options** > **Station** > **Start visual service**.

To change station details, select **Options** > **Station** > **Edit**.

Settings

Select **Options** > **Settings** and from the following:

Start-up tone — Select whether a tone is played when the application is started.

Auto-start service — Select **Yes** to have the Visual Radio service start automatically when you select a saved station that offers Visual Radio service.

Access point — Select the access point used for the Visual Radio data connection. You do not need an access point to use the application as an ordinary FM radio.

Current region — Select the region you are currently located in. This setting is displayed only if there was no network coverage when the application was started.

Nokia Podcasting



With the Nokia Podcasting application, you can search, discover, subscribe to, and download podcasts over the air, and play, manage, and share audio and video podcasts with your device.

To open Nokia Podcasting, press , and select **Music** > **Podcasting**.

Settings

Before using Nokia Podcasting, set your connection and download settings.

The recommended connection method is wireless LAN (WLAN). Check with your service provider for terms and data service fees before using other connections. For example, a flat rate data plan can allow large data transfers for one monthly fee.

To search for wireless LANs available within range, press and select **Tools** > **Connectivity** > **Conn. mgr.** > **Available WLAN networks**.

To create an internet access point in a network, select **Options** > **Define access point**.

Connection settings

To edit the connection settings, press and select **Music** > **Podcasting** > **Options** > **Settings** > **Connection**. Define the following:

Default access point — Select the access point to define your connection to the internet.

Search service URL — Define the podcast search service to be used in **Search**.

Download settings

To edit the download settings, press , and select **Music** > **Podcasting** > **Options** > **Settings** > **Download**. Define the following:

Save to — Define the location where you want to save your podcasts. For optimal use of storage space, mass memory is recommended.

Update interval — Define how often podcasts are updated.

Next update date — Define the date of the next automatic update.

Next update time — Define the time of next automatic update.

Automatic updates only occur if a specific default access point is selected and Nokia Podcasting is running. If Nokia Podcasting is not running, the automatic updates are not activated.

Download limit (%) — Define the size of the memory that is used for podcast downloads.

If limit exceeds — Define what to do if the downloads exceed the download limit.

Setting the application to retrieve podcasts automatically may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

To restore the default settings, select **Options** > **Restore default** in the **Settings** view.

Search

Search helps you to find podcasts by keyword or title.

The search engine uses the podcast search service you set up in **Podcasting** > **Options** > **Settings** > **Connection** > **Search service URL**.

To search for podcasts, press ,select **Music** > **Podcasting** > **Search**, and enter the desired keywords.

Tip! Search looks for podcast titles and keywords in descriptions, not specific episodes. General topics, such as football or hip-hop, usually give better results than a specific team or artist.

To subscribe to a marked channel or channels and add it to your **Podcasts**, select **Subscribe**. You can also add a podcast to your Podcasts by selecting one.

To start a new search, select **Options** > **New search**.

To go the website of the podcast select **Options** > **Open web page** (network service).

To see the details of a podcast, select **Options** > **Description**.

To send a selected podcast or podcasts to another compatible device, select **Options** > **Send**.

The available options may vary.

Directories

Directories help you to find new podcast episodes to which to subscribe.

To open Directories, press , and select **Music** > **Podcasting** > **Directories**.

Contents of the Directories change. Select the desired directory folder to update it (network service). When the color of the folder changes, press the scroll key again to open it.

Directories can include top podcasts listed by popularity or themed folders.

To open the desired folder topic, press the scroll key. A list of podcasts is displayed.

To subscribe to a podcast, select the title, and press the scroll key. After you have subscribed to episodes of a podcast, you can download, manage, and play them in Podcasts.

To add a new directory or folder, select **Options** > **New** > **Web directory** or **Folder**. Enter a title, URL of the .opml (Outline Processor Markup Language), and select **Done**.

To edit the selected folder, web link, or web directory, select **Options** > **Edit**.

To import an .opml file stored on your device, select **Options** > **Import OPML file**. Select the location of the file, and import it.

To send a directory folder as a multimedia message or by Bluetooth connectivity, select the folder and **Options** > **Send**.

When you receive a message with an .opml file sent by Bluetooth connectivity, open the file to save the file into **Received** in **Directories**. Open **Received** to subscribe to any of the links to add to your **Podcasts**.

Download

After you have subscribed to a podcast, from **Directories**, **Search**, or by entering a URL, you can manage, download, and play episodes in **Podcasts**.

To see the podcasts you have subscribed to, select **Podcasting** > **Podcasts**. To see individual episode titles (an episode is a particular media file of a podcast), select the podcast title.

To start a download, select the episode title. To download, or continue downloading selected or marked episodes, select **Options** > **Download** or **Continue download**. You can download multiple episodes at the same time.

To play a portion of a podcast during download or after partial downloading, select **Podcasts** > **Options** > **Play preview**.

Fully downloaded podcasts can be found in **Podcasts** folder, but will not be shown until the music library is refreshed.

The available options may vary.

Play and manage podcasts

To display the available episodes from the selected podcast, select **Options** > **Open**. Under each episode, you will see the file format, the size of the file, and time of the upload.

When the podcast is fully downloaded, to play the full episode, select **Podcasts** > **Options** > **Play**, or press and select **Music** > **Music player** > **Podcasts**.

To update the selected podcast, or marked podcasts, for a new episode, select **Options** > **Update**.

To stop the updating of the selected podcast or marked podcasts, select **Options** > **Stop update**.

To add a new podcast by entering the URL of the podcast, select **Options** > **New podcast**.

If you do not have an access point defined or if during packet data connection you are asked to enter a user name and password, contact your service provider.

To edit the URL of the selected podcast, select **Options** > **Edit**.

To delete a downloaded podcast or marked podcasts from your device, select **Options** > **Delete**.

To send the selected podcast or marked podcasts to another compatible device as .opml files as a multimedia message or by Bluetooth connectivity, select **Options** > **Send**.

To update, delete, and send a group of selected podcasts at once, select **Options** > **Mark/Unmark** mark the desired podcasts, and select **Options** to choose the desired action.

To open the website of the podcast (network service), select **Options** > **Open web page**.

Some podcasts provide the opportunity to interact with the creators by commenting and voting. To connect to the internet to do this, select **Options** > **View comments**.

Video centre

With **Video centre** (network service), you can download and stream video clips over the air from compatible internet video services using packet data or wireless LAN. You can also transfer video clips from a compatible PC to your device, and view them in **Video centre**.

Video centre supports the same file formats as **RealPlayer**. See "RealPlayer", on page 36.

Your device may have predefined services. To connect to the internet to browse available services that you can add to **Video centre**, select **Add new services**.

Service providers may provide free content or charge a fee. Check the pricing in the service or from the service provider.

Find and view videos

1 Press , and select **Video centre**.
2 To connect to a service, select the desired video service.
3 The device updates and displays the content available in the service. To view videos by categories (if available), press and to scroll the other tabs.
4 To view information about a video, select **Options** > **Video details**.
Some clips can be streamed over the air, but others must be first downloaded to your device. To download, select **Options** > **Download**.
To stream a clip or view a downloaded clip, select **Options** > **Play**.
5 When the clip is playing, use the media keys to control the player. To adjust the volume, use the volume key. To view the video in full screen, pause or stop the video, and select **Options** > **Resume in full screen** or **Play in full screen**.

Downloads continue in the background if you exit the application. The downloaded videos are saved in **Video Centre** > **My videos**.

To connect to the internet to browse available services that you can add to the main view, select **Add new services**.

Internet videos

Internet videos are video clips distributed in the internet using RSS-based feeds. You can add new feeds to **Internet videos** in the settings. See "Settings", on page 36.

1 In **Video centre**, select the **Internet videos** folder. Your feeds are displayed.
To add or delete feeds, select **Options** > **Feed subscriptions**.
2 To view the videos available in a feed, scroll to it, and press . To view information about a video, select **Options** > **Video details**.
3 To download a video, scroll to it, and select **Options** > **Download**. To play the downloaded video, press ▶❚❚.

Play downloaded videos

The downloaded and downloading videos are saved in **Video centre** > **My videos**. To play a downloaded video, press ▶❚❚.

You can also transfer video clips from a compatible PC to your device, and view them in **Video centre** > **My videos**. In order for the video clips to be available in **Video centre**, you must save them in the location **C:\Data\My Videos** in the device memory (C:\) or **E:\My Videos** in a compatible memory card (E:\). Use, for example, File manager available in Nokia Nseries PC Suite to transfer files to the correct location.

When the clip is playing, use the media keys to control the player. To adjust the volume, use the volume key. To view the video in full screen, pause or stop the video, and select **Options** > **Resume in full screen** or **Play in full screen**.

If there is not enough free space in the device memory and compatible memory card, the application automatically deletes some of the oldest watched videos when new videos are downloaded. indicates videos that may soon be deleted. To prevent a video from being automatically deleted ( ), select **Options** > **Protect**.

To delete a video, select **Options** > **Delete**. To cancel an ongoing download, select **Options** > **Cancel download**. To change the folder or memory location of a video, select **Options** > **Organise** and the desired option.

Settings

Define the services

1. In **Video centre**, select **Options** > **Settings** > **Video service selection**.
2. To select video services, select **Video on demand**. To add or delete internet video feeds, select **Internet videos**.
3. Select the services you want to appear in the application.
   To add a new internet video feed that is not displayed in the list, select **Options** > **Add feed**. Enter the name and address of the service received from the service provider.
   Some services require a user name and a password that you receive from the service provider.

To define the other settings, select **Options** > **Settings** and from the following:

Default access points — Select the access points used for the data connection. Using packet data access points to download files may involve transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Preferred memory — Select whether downloaded videos are saved in the device memory or a compatible memory card. If the selected memory becomes full, the device saves the content in the other memory, if available. If there is not enough space in the other memory, the application automatically deletes some of the oldest watched videos.

Thumbnails — Select whether to view thumbnail images in the video lists of video services.

RealPlayer

Press , and select **Applications** > **Media** > **RealPlayer**. With **RealPlayer**, you can play video clips, or stream media files over the air without saving them to the device first.

RealPlayer supports files with extensions such as .3gp, .mp4 or .rm. However, **RealPlayer** does not necessarily support all file formats or all the variations of file formats.

In landscape view, use the media keys to control the player.

Play video clips

1. To play a saved media file, select **Options** > **Open** and from the following:
   Most recent clips — to play one of the last six files played in **RealPlayer**
   Saved clip — to play a file saved in **Gallery**.
2. Scroll to a file, and press ▶❚❚ to play the file.

To adjust the volume, use the volume key.

Stream content over the air

Many service providers require you to use an internet access point (IAP) for your default access point. Other service providers allow you to use a WAP access point.

In **RealPlayer**, you can only open an rtsp:// URL address. However, **RealPlayer** recognises an http link to a .ram file.

To stream content over the air, select a streaming link saved in **Gallery**, on a web page, or received in a text message or multimedia message. Before live content begins streaming, your device connects to the site and starts loading the content. The content is not saved in your device.

RealPlayer settings

You may receive **RealPlayer** settings in a special message from the service provider. See "Data and settings", on page 80. For more information, contact your service provider.

Select **Options** > **Settings** and from the following:

Video — to adjust the contrast of the video or have **RealPlayer** automatically repeat video clips after they finish playing

Streaming — to select whether to use a proxy server, change the default access point, and set the port range used when connecting. Contact your service provider for the correct settings.

Adobe

To view, play, and interact with compatible flash files made for mobile devices, press , and select **Applications** > **Media** > **Flash Player**. Scroll to a flash file, and press .

Nokia Lifeblog

To start Lifeblog on your device, press , and select **Applications** > **Media** > **Lifeblog**.

Nokia Lifeblog is a combination of software for mobile phone and PC that keeps a multimedia diary of the items that you collect with your device. Nokia Lifeblog automatically keeps track of your multimedia items and organises your photos, videos, sounds, text messages, multimedia messages, and weblog posts into a chronology that you can browse, search, share, publish, and back up.

For more information on weblog services and their compatibility with Nokia Lifeblog, visit www.nokia.com/lifeblog, or press **F1** in the Nokia Lifeblog PC application to open Nokia Lifeblog Help.

Installation on your PC

Before you install Nokia Lifeblog on a compatible PC, you need the following:

- 1 GHz Intel Pentium or equivalent, 128 MB RAM
- 400 MB of available hard disk space (if Microsoft DirectX and Nokia Nseries PC Suite must be installed)
- Graphics capability of 1024x768 and 24-bit color
- 32 MB graphics card
- Microsoft Windows 2000 or Windows XP

To install Nokia Lifeblog on your PC:

1. Insert the CD-ROM or DVD-ROM supplied with your device.
2. Install Nokia Nseries PC Suite (includes Nokia Connectivity Cable drivers for USB connection).
3. Install Nokia Lifeblog for PC.

If Microsoft DirectX 9.0 is not already installed on your PC, it is installed at the same time with Nokia Lifeblog for PC.

Connect your device and your PC

To connect your device and a compatible PC using a USB data cable:

1. Ensure that you have installed Nokia Nseries PC Suite.
2. Connect the USB data cable to the device and the PC. The **USB mode** should be **PC Suite**, see "USB", on page 22. When you connect your device to the PC for the first time after you have installed Nokia Nseries PC Suite, the PC installs the specific driver for your device. This may take a while.
3. Start the Nokia Lifeblog PC application.

To connect your device and a compatible PC using Bluetooth wireless technology:

1. Ensure that you have installed Nokia Nseries PC Suite on your PC.
2. Ensure that you have paired your device and the PC through Bluetooth wireless technology with Get Connected in Nokia Nseries PC Suite.

3 Activate Bluetooth connectivity on your device and on your PC. For details, see "Bluetooth connectivity", on page 18 and the documentation for your PC.

Copy items

To copy new or edited items from your device to your PC, and copy the selected items from your PC to your device:

1. Connect your device to the PC.
2. Start the Nokia Lifeblog application on your PC.
3. In the Nokia Lifeblog PC application, select **File** > **Copy from Phone and to Phone**.
   The new items from your device are copied to your PC. The items on the **To Phone** view on your PC are copied to your device.

Browse Timeline and Favorites

When you start Nokia Lifeblog on your device, the **Timeline** view opens and shows your multimedia items. To open your saved favorites, select **Options** > **View favourites**.

When you start Nokia Lifeblog on your PC, you have several ways to move around in the **Timeline** and **Favourites** views. The fastest way is to grab the slider handle and move it forward or backward, fast or slow. Alternatively, click the time bar to select a date, use the **Go to date** feature, or use the arrow keys.

Post to the web

To share your best Nokia Lifeblog items, send them to your weblog on the internet for others to see.

You must first create an account with a weblog service, create one or more weblogs that you use as the destination of your posts, and add the weblog account to Nokia Lifeblog. The recommended weblog service for Nokia Lifeblog is TypePad from Six Apart, www.typepad.com.

On your device, to add the weblog account in Nokia Lifeblog, select **Options** > **Settings** > **Blog**. On your PC, edit accounts in the **Blog account manager** window.

To post items to the web from your device:

1. In **Timeline** or **Favourites**, select the items that you want to post to the web.
2. Select **Options** > **Post to Web**.
3. If you use the feature for the first time, Nokia Lifeblog retrieves a weblog list from the weblog server.
4. The weblog post dialog opens. Select the weblog you want to use from the **Post to:** list. If you have created new weblogs, to update the weblog list, select **Options** > **Refresh blog list**.
5. Enter a title and a caption for the post. You can also write a longer story or description in the body text field.
6. When everything is ready, select **Options** > **Send**.

To post items to the web from your PC:

1 In the timeline of favorites, select the items (a maximum of 50) that you want to post to the web.
2 Select **File** > **Post to the Web...**.
3 Enter a title and a caption for the post. You can also write a longer story or description in the body text field.
4 Select the weblog that you want to use from the **Post to:** list.
5 When everything is ready, click the **Send** button.

Import items from other sources

In addition to the .jpeg images of your device, you can also import .jpeg images and .3gp and .mp4 video clips, .amr sound files, and .txt text files from other sources (such as a CD, DVD, or folders on your hard disk) into Nokia Lifeblog.

To import images or videos from a compatible PC to Nokia Lifeblog for PC, in the timeline or favorites, select **File** > **Import from PC...**.

Camera

Your Nokia N95 has two cameras, a high resolution camera on the back of the device (the main camera in landscape mode) and a lower resolution camera on the front (the secondary camera in portrait mode). You can use both cameras to take still pictures and record videos.

Your device supports an image capture resolution of 2592x1944 pixels using the main camera. The image resolution in this guide may appear different.

The images and video clips are automatically saved in the **Images & vids.** folder in **Gallery**. The cameras produce .jpeg images. Video clips are recorded in the MPEG-4 file format with the .mp4 file extension, or in the 3GPP file format with the .3gp file extension (**sharing** quality). See "Video settings", on page 49.

Tip! To enter **Gallery** and view the pictures you have taken, press the review key on the side of your device twice.

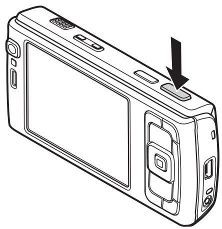
You can send images and video clips in a multimedia message, as an e-mail attachment, or by using Bluetooth connectivity, infrared, or wireless LAN connection. You can also upload them to a compatible online album. See "Share online", on page 57.

Take pictures

When taking a picture, note the following:

- Use both hands to keep the camera still.
- The quality of a digitally zoomed picture is lower than that of a nonzoomed picture.
- The camera goes into the battery saving mode if there are no keypresses for a moment. To continue taking pictures, press .

To take a picture, do the following:



1 To activate the main camera, open the lens cover by using the camera activation switch. If the camera is in **Video mode**, select **Image mode** from the active toolbar.
2 To lock the focus on an object, press the capture key halfway down (main camera only, not available in close-up and landscape scenes). The green locked focus indicator appears on the display. If the focus was not locked, the red focus indicator appears. Release the capture key, and press it

halfway down again. You can, however, take the picture without locking the focus.

3 To take a picture, in the main camera, press the capture key. Do not move the device before the image is saved.

To zoom in or out, use the zoom key in your device.

To make lighting and color adjustments before taking a picture, use the scroll key to scroll through the active toolbar. See "Setup settings — adjust color and lighting", on page 45. Saving the captured image may take longer if you change the zoom, lighting, or color settings.

To activate the front camera, select **Options** > **Use secondary camera**.

To leave the camera open in the background, and use other applications, press . To return to the camera, press the capture key.

To close the main camera, close the lens cover.

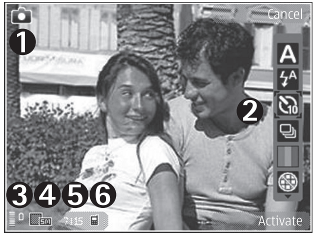
Still image camera indicators

The still image camera viewfinder displays the following:

1 The current capture mode indicator.

2 The active toolbar, which you can scroll through before capturing the image to select different items and settings (the active toolbar is not displayed during focus and image capture). See "Active toolbar", on page 42.

3 Battery charge level indicator.



4 The image resolution indicator indicates whether the quality of the image is **Print 5M – Large**, **Print 3M – Medium**, **Print 2M – Medium**, **E-mail 0.8M – Med.**, or **MMS 0.3M – Small**.

5 The image counter displays the estimated number of images you can capture using the current image quality setting and memory in use (the counter is not displayed during focus and image capture).

6 The device memory ( ) and memory card ( ) indicators show where images are saved.

Active toolbar

Active toolbar provides you with shortcuts to different items and settings before and after taking a picture or recording a video. Scroll to items, and select them by pressing the scroll key. You can also define when the active toolbar is visible on the display.

If you want the active toolbar to be visible before and after taking a picture or recording a video, select **Options** > **Show icons**. To view the active toolbar only when you need it, select **Options** > **Hide icons**. Only the capture mode indicator is shown on the display. To activate the active toolbar, press the scroll key. To hide it again, press the capture key half way down.

Before taking a picture or recording a video, in the active toolbar, select from the following:

to switch between the video and image modes

to select the scene

to select the flash mode (images only)

to activate the self-timer (images only). See "You in the picture — self-timer", on page 47.

to activate the sequence mode (images only). See "Take pictures in a sequence", on page 46.

to select a color effect

to show or hide the viewfinder grid (images only)

to adjust white balance

to adjust the exposure compensation (images only)

to adjust light sensitivity (images only)

to adjust contrast (images only)

to adjust sharpness (images only)

The icons change to reflect the current status of the setting.

The available options vary depending on the capture mode and view you are in.

See also active toolbar options in "After taking a picture", on page 43, "After recording a video", on page 48, and "Active toolbar", on page 51 in **Gallery**.

After taking a picture

After you take the picture, select the following from the active toolbar (available only if **Show captured image** is set to **Yes** in still image camera settings):

- If you do not want to keep the image, select **Delete**.
- To send the image using multimedia, e-mail, Bluetooth connectivity, infrared, press the call key, or select **Send**. For more information, see "Messaging", on page 77, "Bluetooth connectivity", on page 18. This option is not available during an active call.
  You can also send the image to a call recipient during an active call. Select **Send to caller** (only available during an active call).
- To send the image to a compatible online album, select **Sign in for Online Share**. If you are already signed into an online service, select **Post to** (available only if you have set up an account for a compatible online album). See "Share online", on page 57.

- To tag images to the Print Basket for later printing, select **Add to Print Basket**.

To use the picture as wallpaper in the active standby, select **Options** > **Set as wallpaper**.

To set the image as a call image for a contact, select **Set as contact call img.**.

To return to the viewfinder to capture a new image, press the capture key.

Still image camera settings

There are two kinds of settings for the still image camera: **Image setup** and main settings. To adjust **Image setup**, see "Setup settings — adjust color and lighting", on page 45. The setup settings return to the default settings after you close the camera, but the main settings remain the same until you change them again. To change the main settings, select **Options** > **Settings** and from the following:

Image quality — **Print 5M - Large** (2592x1944 resolution), **Print 3M - Medium** (2048x1536 resolution), **Print 2M - Medium** (1600 x 1200), **E-mail 0.8M - Med.** (1024x768 resolution), or **MMS 0.3M - Small** (640x480 resolution). The better the image quality, the more memory the image consumes. If you want to print the image, select **Print 5M - Large**, **Print 3M - Medium**, or **Print 2M - Medium**. If you want to send it through e-mail, select **E-mail 0.8M - Med.**. To send the image through MMS, select **MMS 0.3M - Small**.

These resolutions are only available in the main camera.

Add to album — Select whether you want to save the image to a certain album in the gallery. If you select **Yes**, a list of available albums opens.

Show captured image — Select **Yes** if you want to see the captured image after it is taken, or **No** if you want to continue taking pictures immediately.

Default image name — Define the default name for the captured images.

Extended digital zoom (main camera only) — Select **On** to allow the zoom increments to be smooth and continuous between digital and extended digital zoom. If you want to limit the zoom to where the selected image quality is maintained, select **Off**.

Capture tone — Select the tone you want to hear when you take a picture.

Memory in use — Select where to store your images.

Rotate image — Select whether you want the image to be rotated the right way up when you open it in the gallery.

Restore camera settings — Select **Yes** to return the default values to the camera settings.

Flash

The flash is available only in the main camera.

Keep a safe distance when using the flash. Do not use the flash on people or animals at close range. Do not cover the flash while taking a picture.

The camera has an LED flash for low light conditions. The following flash modes are available for the still image camera: **Automatic** ( ), **R. eye redu.** ( ), **On** ( ), and **Off** ( ).

To change the flash mode, in the active toolbar, select the desired flash mode.

Setup settings — adjust color and lighting

To enable the camera to reproduce colors and lighting more accurately, or to add effects to your pictures or videos, use the scroll key to scroll through the active toolbar, and select from the following options:

White balance — Select the current lighting condition from the list. This allows the camera to reproduce colors more accurately.

Exposure compensation (images only) — Adjust the exposure time of the camera.

Flash — Select the desired flash mode. See "Flash", on page 45.

Colour tone — Select a color effect from the list.

Light sensitivity (images only) — Select the light sensitivity of the camera. The darker the environment, the higher the light sensitivity should be.

The screen display changes to match any settings you make, so that you see how the change affects the pictures or videos.

The available settings vary depending on the selected camera.

The setup settings are camera specific; if you change the settings in the secondary camera, the settings in the main camera do not change. The setup settings do, however, transfer between the image and video modes. The setup settings return to the default settings when you close the camera.

If you select a new scene, the color and lighting settings are replaced by the selected scene. See "Scenes", on page 46. You can change the setup settings after selecting a scene if needed.

Scenes

A scene helps you to find the right color and lighting settings for the current environment. The settings of each scene have been set according to a certain style or environment.

Scenes are only available in the main camera.

In the active toolbar, select from the following options:

Video scenes

Automatic ( )(default) and **Night** ( )

Image scenes

Auto ( ) (default), **User defined** ( ), **Close-up mode**( ), **Portrait** ( ), **Landscape** ( ), **Sports** ( ), **Night** ( ), and **Night portrait** ( ).

When you take pictures, the default scene is **Auto**. You can select the **User defined** scene as the default scene.

To make your own scene suitable for a certain environment, scroll to **User defined**, and select **Options** > **Change**. In the user defined scene you can adjust different lighting and color settings. To copy the settings of another scene, select **Based on scene mode** and the desired scene.

Take pictures in a sequence

The sequence mode is available only in the main camera.

To set the camera to take six pictures or more in a sequence (if enough memory available), in the active toolbar, select **Switch to sequence mode** > **Burst** to take six pictures, or the time period for taking pictures. The number of pictures taken depends on the available memory.

To take six pictures, press the capture key. To stop taking pictures, press **Cancel**. To take more than six pictures, press and hold the capture key. To stop taking pictures, release the capture key. You can capture up to 100 images, depending on the available memory.

To use a time period for taking pictures, select **Switch to sequence mode**, and a time preriod. To start taking pictures, press the capture key. To stop taking pictures before the time ends, press the capture key again.

After you take the pictures, they are shown in a grid on the display. To view a picture, press to open it. If you used a time period for taking pictures, the last taken picture is shown on the display. To view other pictures, press .

You can also use the sequence mode with the self-timer. When using the self-timer, the maximum amount of pictures is six pictures.

To return to the sequence mode viewfinder, press the capture key.

You in the picture — self-timer

The self-timer is available only in the main camera.

Use the self-timer to delay the capture so that you can include yourself in the picture. To set the self-timer delay, in the active toolbar, select **Self timer** > **2 seconds**, **10 seconds**, or **20 seconds**. To activate the self-timer, select **Activate**. The quadrangle blinks and the device beeps when the timer is running. The camera takes the picture after the selected delay elapses.

To switch off **Self timer**, in the active toolbar, select **Self timer** > **Off**.

Tip! In the active toolbar, select **Self timer** > **2 seconds** to keep your hand steady when taking a picture.

Record videos

1 To activate the main camera, open the lens cover. If the camera is in the **Image mode**, select **Video mode** from the active toolbar.
2 Press the capture key to start recording. In the portrait mode, use the scroll key for recording. The red record icon ● is shown and a tone sounds, indicating that recording has started.
3 Select **Stop** to stop recording. The video clip is automatically saved to the **Images & vids.** folder of **Gallery**. See "Gallery", on page 50. The maximum length of the video is 60 minutes (if enough memory available).

To pause recording at any time, press **Pause**. The pause icon (❚❚) blinks on the display. Video recording automatically stops if recording is set to pause and there are no keypresses within a minute. Press **Continue** to resume recording.

To zoom in or out of the subject, press the zoom key on the side of the device.

To make lighting and color adjustments before recording a video, use the scroll key to scroll through the active toolbar. See "Setup settings — adjust color and lighting", on page 45 and "Scenes", on page 46.

To activate the front camera, select **Options** > **Use secondary camera**.

Video capture indicators

The video viewfinder displays the following:

1 The current capture mode indicator.
2 The audio mute on indicator.
3 The active toolbar, which you can scroll through before recording to select different items and settings (the toolbar is not displayed during recording). See "Active toolbar", on page 42.

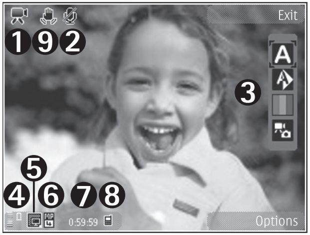
4 Battery charge level indicator.

5 The video quality indicator indicates whether the quality of the video is **TV High quality**, **TV normal quality**, **E-mail high quality**, **E-mail norm. quality**, or **Sharing quality**.

6 The video clip file type.

7 The total available video recording time. When you are recording, the current video length indicator also shows the elapsed time and time remaining.

8 The device memory ( ) and memory card ( ) indicators show where videos are saved.



9 The video stabilisation is turned on ( ). See "Video settings", on page 49.

To display all viewfinder indicators, select **Options** > **Show icons**. Select **Hide icons** to display only the video status indicators, and during the recording, the available record time, zoom bar when zooming, and the selection keys.

After recording a video

After you record a video clip, select the following from the active toolbar (available only if **Show captured video** is set to **Yes** in Video settings):

- To immediately play the video clip you just recorded, select **Play**.
- If you do not want to keep the video, select **Delete**.
- To send the video clip using multimedia, e-mail, Bluetooth connectivity, or infrared, press the call key, or select **Send**. For more information, see "Messaging", on page 77 and "Bluetooth connectivity", on page 18. This option is not available during an active call. You may not be able to send video clips saved in the .mp4 file format in a multimedia message.
  You can also send the video clip to a call recipient during an active call. Select **Send to caller**.
- To upload the video clip to a compatible online album, select **Sign in for Online Share**. If you are already signed into an online service, select **Post to** (available only if you have set up an account for a compatible online album). See "Share online", on page 57.
- To return to the viewfinder to record a new video clip, press the capture key.

Video settings

There are two kinds of settings for the video recorder: **Video setup** and main settings. To adjust **Video setup** settings, see "Setup settings — adjust color and lighting", on page 45. The setup settings return to the default settings after you close the camera, but the main settings remain the same until you change them again. To change the main settings, select **Options** > **Settings** and from the following:

Video quality — Set the quality of the video clip to **TV High quality**, **TV normal quality**, **E-mail high quality**, **E-mail norm. quality** (standard quality for playback through your handset), or **Sharing quality**. If you want to view the video on a compatible TV or PC, select **TV High quality** or **TV normal quality**, which have VGA resolution (640x480) and the .mp4 file format. You may not be able to send video clips saved in the .mp4 file format in a multimedia message. To send the video clip through MMS, select **Sharing quality** (QCIF resolution, .3gp file format). The size of the video clip recorded with **Sharing quality** is limited to 300 KB (about 20 seconds in duration) so that it can be conveniently sent as a multimedia message to a compatible device.

Video stabilisation — Select **On** to reduce camera shaking when recording the video.

Audio recording — Select **Off** if you do not want to record sound.

Add to album — Select whether you want to add the recorded video clip to a certain album in **Gallery**. Select **Yes** to open a list of available albums.

Show captured video — Select whether you want the first frame of the recorded video clip to be shown on the display after the recording stops. Select **Play** from the active toolbar (main camera) or **Options** > **Play** (secondary camera) to view the video clip.

Default video name — Define the default name for the captured video clips.

Memory in use — Define the default memory store: device memory or memory card (if inserted).

Restore camera settings — Select **Yes** to return the default values to the camera settings.

Gallery

To store and organise your images, video clips, sound clips, and streaming links, or share your files with other compatible Universal Plug and Play (UPnP) devices through wireless LAN, press , and select **Gallery**.

Tip! If you are in another application, to view the last saved picture in **Gallery**, press the review key on the side of your device. To enter the **Images & videos** folder main view, press the review key again.

View and browse files

Select **Images & videos**, **Tracks**, **Sound clips**, **Streaming links**, **Presentations**, **All files**, or **Home network**, and press to open it. The content in the **Images & videos** folder is shown in the landscape mode.



You can browse and open folders; and mark, copy, and move items to folders.

You can also create albums; and mark, copy, and add items to albums. See "Albums", on page 52.

Files stored on your compatible memory card (if inserted) are indicated with .

To open a file, press . Video clips, .ram files, and streaming links are opened and played in **RealPlayer**, and music and sound clips in **Music player**. See "RealPlayer", on page 36, and "Music player", on page 25.

To copy or move files to the memory card (if inserted) or to device memory, select a file and **Options** > **Move and copy** > **Copy to memory card** or **Move to memory card**, or **Copy to phone mem.** or **Move to phone mem.**.

To download sound clips into **Gallery** using the browser, in the **Sound clips** folders, select **Downld. sounds**.

Images and video clips

Pictures taken and video clips recorded with the camera are stored in the **Images & videos** folder in **Gallery**. Images and video clips can also be sent to you in a multimedia message, as an e-mail attachment, or through Bluetooth connectivity or infrared. To be able to view a received image or video clip in **Gallery** or in the media player, you

must save it in the device memory or on a compatible memory card (if inserted).

The video clips saved in **Video centre** are not shown in **Images & videos** in **Gallery**. To view video clips in **Video centre**, see "Video centre", on page 34.

Select **Gallery** > **Images & videos**. The images and video clip files are in a loop, and ordered by date and time. The number of files is displayed. To browse the files one by one, press ◀ or ▶. To browse files in groups, press ▲ or ▼.



When the image is opened, to zoom in an image, press the zoom key on the side of your device. The zooming ratio is not stored permanently.

To rotate the selected image left or right, select **Options** > **Rotate** > **Left** or **Right**.

To edit a video clip or a photo, select **Options** > **Edit**. See "Edit video clips", on page 54. See "Edit images", on page 53.

To create custom video clips, select a video clip or several clips in the gallery, and select **Options** > **Edit**. See "Edit video clips", on page 54.

To print your images on a compatible printer, or to store them on a compatible memory card (if inserted) for printing, select **Options** > **Print**. See "Image print", on page 55. You can also tag images for later printing to the Print Basket in **Gallery**. See "Print Basket", on page 52.

To add an image or a video clip to an album in the gallery, select **Options** > **Albums** > **Add to album**. See "Albums", on page 52.

To use the picture as a background image, select the picture and **Options** > **Use image** > **Set as wallpaper**.

To delete an image or video clip, from the active toolbar, select **Delete**. See "Active toolbar", on page 51.

To switch from **Gallery** to the camera, press the capture key, and open the lens cover in the back.

Active toolbar

In the **Images & videos** folder, you can use active toolbar as a shortcut to select different tasks. The active toolbar is available only when you have selected an image or a video clip.

In the active toolbar, scroll up or down to different items, and select them by pressing the scroll key. The available

options vary depending on the view you are in and whether you have selected an image or a video clip. You can also define whether the active toolbar is always visible on the display or activated by a keypress.

If you want the active toolbar to be visible on the display, select **Options** > **Show icons**.

If you want the active toolbar to be visible only when you need it, select **Options** > **Hide icons**. To activate the active toolbar, press ◉.

Select from the following:

▶ to play the selected video clip

✉ to send the selected image or video clip

🖶 / 🖶 to add or remove an image from the Print Basket. See "Print Basket", on page 52.

🖶 to view the images in the Print basket

to start a slide show of your images

🗑 to delete the selected image or video clip

🖶 to print the viewed image

The available options may vary depending on the view you are in.

Print Basket

You can tag images to the Print Basket, and print them later with a compatible printer or in a compatible printing kiosk, if available. See "Image print", on page 55. The tagged images are indicated with 🖶 in the **Images & videos** folder and albums.

To tag an image for later printing, select an image, and **Add to Print Basket** from the active toolbar.

To view the images in the Print Basket, select **View Print Basket** from the active toolbar, or select 🖶 from the **Images & videos** folder (available only when you have added pictures to the Print Basket).

To remove an image from the Print Basket, select an image in the **Images & videos** folder or in an album, and **Remove from print** from the active toolbar.

Albums

With albums you can conveniently manage your images and video clips. To view the albums list, select **Images & videos** > **Options** > **Albums** > **View albums**.

To add a picture or a video clip to an album in the gallery, scroll to a picture or video clip, and select **Options** > **Albums** > **Add to album**. A list of albums opens. Select the album to which you want to add the picture or video clip.

The added pictures and video clips are not deleted from the **Images & videos** folder.

To remove a file from an album, press C. The file is not deleted from the **Images & videos** folder in **Gallery**.

To create a new album, in the albums list view, select **Options** > **New album**.

Edit images

To edit the pictures after taking them, or the ones already saved in **Gallery**, select **Options** > **Edit**.

Select **Options** > **Apply effect** to open a grid where you can select different edit options indicated by small icons. You can crop and rotate the image; adjust the brightness, color, contrast, and resolution; and add effects, text, clip art, or a frame to the picture.

Crop image

To crop an image, select **Options** > **Apply effect** > **Crop**. To crop the image size manually, select **Manual** or a predefined aspect ratio from the list. If you select **Manual**, a cross appears in the upper left corner of the image. Use the scroll key to select the area to crop, and select **Set**. Another cross appears in the lower right corner. Again select the area to be cropped. To adjust the first selected area, select **Back**. The selected areas form a rectangle that forms the cropped image.

If you selected a predefined aspect ratio, select the upper left corner of the area to be cropped. To resize the highlighted area, use the scroll key. To freeze the selected area, press ◉. To move the area within the picture, use the scroll key. To select the area to be cropped, press ◉.

Reduce redness

To reduce redness of the eyes in an image, select **Options** > **Apply effect** > **Red eye reduction**. Move the cross onto the eye, and press ◉. A loop appears on the display. To resize the loop to fit the size of the eye, use the scroll key. To reduce the redness, press ◉.

Useful shortcuts

Shortcuts in the image editor:

- To view an image in the full screen, press *. To return to the normal view, press * again.
- To rotate an image clockwise or counterclockwise, press 3 or 1.
- To zoom in or out, press 5 or 0.
- To move on a zoomed image, scroll up, down, left, or right.

Edit video clips

To edit video clips in **Gallery** and create custom video clips, scroll to a video clip, and select **Options** > **Edit**.

Video editing supports .3gp and .mp4 video file formats, and .aac, .amr, .mp3, and .wav audio file formats.

Tip! If you want to send a video clip that is over the maximum multimedia message size allowed by your service provider, send the clip using Bluetooth wireless technology. You can also transfer your videos to a compatible PC using Bluetooth connectivity, a compatible USB cable, or by using a compatible memory card reader enhancement.

Slide show

In the active toolbar, select **Slide show** ( ) to view a slide show of images in full screen. The slide show starts from the selected file. Select from the following:

Pause — to pause the slide show

Continue — to resume the slide show, if paused

End — to close the slide show

To browse the images, press (previous) or (next) (available only when **Zoom and pan** is off).

To adjust the tempo of the slide show, before starting the slide show, select **Options** > **Slide show** > **Settings** > **Delay between slides**.

To make the slide show move smoothly from one slide to another, and let the gallery randomly zoom in and out in the images, select **Zoom and pan**.

To add sound to the slide show, select **Options** > **Slide show** > **Settings** and from the following:

Music — Select **On** or **Off**.

Song — Select a music file from the list.

To decrease or increase the volume, use the volume key in your device.

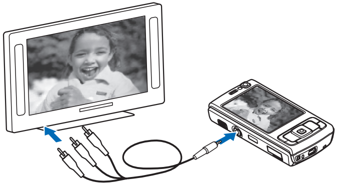
TV out mode

To view the captured images and video clips on a compatible TV, use a Nokia Video Connectivity Cable.

Before viewing the images and video clips on TV, you must configure the TV out settings for the applicable TV system and TV aspect ratio. See "Enhancement", on page 110.

To watch images and video clips on TV, do the following:

1 Connect a Nokia Video Connectivity Cable to the video input of a compatible TV.
2 Connect the other end of the Nokia Video Connectivity Cable to the Nokia AV Connector of your device.



3 You may need to select the cable mode.

4 Press , and select **Gallery** > **Videos & images** and the file you want to view.

The images are shown in the image viewer, and the video clips are played in RealPlayer.

All audio, including the stereo video clip sound, ringing tone, and key tone, is routed to the TV when the Nokia Video Connectivity Cable is connected to the device. You can use the device microphone normally.

For all applications other than the **Images & vids.** folder in **Gallery** and **RealPlayer**, the TV screen displays what is displayed on the screen of your device.

The opened image is displayed in full screen on the TV. When you open an image in the thumbnail view while it is viewed on the TV, **Zoom in** is not available.

When you open a highlighted video clip, **RealPlayer** starts playing the video clip on the device display and the TV screen. See "RealPlayer", on page 36.

You can view images as a slide show on TV. All items in an album or marked images are displayed on the TV in full screen while the selected music plays. See "Slide show", on page 54.

Presentations

With presentations, you can view SVG (scalable vector graphics) files, such as cartoons and maps. SVG images maintain their appearance when printed or viewed with different screen sizes and resolutions. To view SVG files, select **Presentations**, scroll to an image, and select **Options** > **Play**. To pause playing, select **Options** > **Pause**.

To zoom in, press **5** . To zoom out, press **0** .

To rotate the image 90 degrees clockwise or counter-clockwise, press **1** or **3** . To rotate the image 45 degrees, press **7** or **9** .

To switch between full screen and normal screen, press * .

Image print

To print images with **Image print**, select the image you want to print, and the print option in the gallery, camera, image editor, or image viewer.

Use **Image print** to print your images using a compatible USB data cable, wireless LAN, Bluetooth connectivity, or a compatible memory card (if available).

You can only print images that are in .jpeg format. The pictures taken with the camera are automatically saved in .jpeg format.

To print to a printer compatible with PictBridge, connect the data cable before you select the print option, and check that the data cable mode is set to **Image print** or **Ask on connection**. See "USB", on page 22.

Printer selection

When you use **Image print** for the first time, a list of available compatible printers is displayed after you select the image. Select a printer. The printer is set as the default printer.

If you have connected a printer compatible with PictBridge using a compatible USB data cable, the printer is automatically displayed.

If the default printer is not available, a list of available printing devices is displayed.

To change the default printer, select **Options** > **Settings** > **Default printer**.

Print preview

After you select the printer, the selected images are displayed using predefined layouts. To change the layout, press ◀ or ▶ to browse through the available layouts for the selected printer. If the images do not fit on a single page, press ▲ or ▼ to display the additional pages.

Print settings

The available options vary depending on the capabilities of the printing device you selected.

To set a default printer, select **Options** > **Default printer**.

To select the paper size, select **Paper size**, the size of paper from the list, and **OK**. Select **Cancel** to return to the previous view.

Print online

With **Print online**, you can order prints of images online directly to your home, or to a store where you can pick them up. You can also order different products with the selected image, such as mugs or mouse pads. The available products depend on the service provider.

To use **Print online**, you must have at least one printing service configuration file installed. The files can be obtained from printing service providers that support **Print online**.

For more information on the application, see the Additional applications leaflet for your device at www.nokia-asia.com/N95/support or your local Nokia website.

Share online

With **Online share**, you can share images and video clips in compatible online albums, weblogs, or in other online sharing services on the web. You can upload content, save unfinished posts as drafts and continue later, and view the content of the albums. The supported content types may vary depending on the service provider.

To use **Online share**, you must subscribe to the service with an online image sharing service provider, and create a new account. You can usually subscribe to the service on the web page of the service provider. Contact your service provider for details on subscribing to the service. For more information on compatible service providers, see the product support pages at www.nokia-asia.com/N95/support or your local Nokia website.

For more information on the application, see the Additional applications leaflet for your device at www.nokia-asia.com/N95/support or your local Nokia website.

Home network

Your device is compatible with Universal Plug and Play architecture (UPnP). Using a wireless LAN access point device or a wireless LAN router, you can create a home network and connect compatible UPnP devices that support wireless LAN to the network, such as your Nokia N95, a compatible PC, a compatible printer, and a compatible sound system or TV, or a sound system or TV equipped with a compatible wireless multimedia receiver.

Using the wireless LAN function of the Nokia N95 in a home network requires a working wireless LAN home connection setup and the other target home devices to be UPnP enabled and to be connected to the same home network.

The home network uses the security settings of the wireless LAN connection. Use the home network feature in a wireless LAN infrastructure network with a wireless LAN access point device and encryption enabled.

You can share media files saved in **Gallery** with other compatible UPnP devices using the home network. To manage your **Home netw.** settings, press , and select **Tools** > **Connectivity** > **Home netw.**. You can also use the home network to view, play, copy, or print compatible

media files from **Gallery**. See "View and share media files", on page 59.

Important: Always enable one of the available encryption methods to increase the security of your wireless LAN connection. Using encryption reduces the risk of unauthorised access to your data.

Your device is connected to the home network only if you accept a connection request from another compatible device, or in **Gallery**, select the option to view, play, print, or copy media files on your Nokia N95 or search for other devices in the **Home network** folder.

Important security information

When you configure your wireless LAN home network, enable an encryption method on your access point device, then on the other devices you intend to connect to your home network. Refer to the documentation of the devices. Keep any passcodes secret and in a safe place separate from the devices.

To view or change the settings of the wireless LAN Internet access point in your device, see "Access points", on page 117.

If you use the ad hoc operating mode to create a home network with a compatible device, enable one of the encryption methods in **WLAN security mode** when you configure the Internet access point. This step reduces the risk of an unwanted party joining the ad hoc network.

Your device notifies you if another device attempts to connect to it and the home network. Do not accept connection requests from an unknown device.

If you use wireless LAN in a network that does not have encryption, switch off sharing Nokia N95 files with other devices, or do not share any private media files. To change sharing settings, see "Home network settings", on page 58.

Home network settings

To share media files saved in **Gallery** with other compatible UPnP devices through wireless LAN, you must create and configure your wireless LAN home Internet access point, then configure the **Home netw.** application. See "Wireless LAN", on page 16 and the wireless LAN settings in "Access points", on page 117.

The options related to **Home netw.** are not available in **Gallery** before the **Home netw.** settings have been configured.

When you access the home network application for the first time, the setup wizard opens, and helps you to define the home network settings for your device. To use the setup wizard later, in the home network main view, select **Options** > **Run wizard**, and follow the instructions on the display.

To connect a compatible PC to the home network, on the PC, you must install the related software from the CD-ROM or DVD-ROM supplied with your device.

Configure settings

To configure the home network application, select **Tools** > **Connectivity** > **Home netw.** > **Settings** and from the following:

Home access point — Select **Always ask** if you want the device to ask for the home access point every time you connect to the home network, **Create new** to define a new access point that is used automatically when you use **Home netw.** or **None**. If your home network does not have wireless LAN security settings enabled, you get a security warning. You can continue, and switch the wireless LAN security on later; or cancel defining the access point, and first switch on the wireless LAN security. See Wireless LAN in "Access points", on page 117.

Device name — Enter a name for your device that is shown to the other compatible devices in the home network.

Set sharing on and define content

Select **Tools** > **Connectivity** > **Home netw.** > **Share content** and from the following:

Content sharing — Allow or deny sharing media files with compatible devices. Do not set **Content sharing** on before you have configured all the other settings. If you set **Content sharing** on, the other UPnP compatible devices in the home network can view and copy your files you have selected for sharing in the **Images & video** folder.

Images & video — Select media files for sharing with other devices, or view the sharing status of **Images & video**. To update the content of the folder, select **Options** > **Refresh content**.

View and share media files

If **Content sharing** is on in your device, the other UPnP compatible devices in the home network can view and copy the media files you have selected to share in **Share content**. If you do not want the other devices to access your files, set **Content sharing** off. Even if **Content sharing** is off in your device, you can still view and copy the media files stored in another home network device if it is allowed by the other device.

Show media files stored in your device

To select images and videos stored in your device, and show them in another home network device, such as a compatible TV, do the following:

1. In **Gallery**, select an image or a video clip.
2. Select **Options** > **Show via home network**.

3 Select a compatible device in which the media file is shown. The images are shown both in the other home network device and your device, and the video clips are played only in the other device.

Show media files stored in the other device

To select media files that are stored on another home network device, and show them in your device (or in a compatible TV, for example), do the following:

1 Press and select **Tools** > **Connectivity** > **Home netw.** > **Browse home**. Your device starts the search of other compatible devices. Device names start to appear on the display.
2 Select a device from the list.
3 Select the type of media you want to view from the other device. The available file types depend on the features of the other device.
4 Select the image, video clip, music clip, or folder you want to view, and select **Show via home network** (images and video) or **Play via home network** (music).
5 Select the device in which the file is shown. In the home network, you cannot play music in your device, but you can play it in compatible external devices, and use your device as a remote control.

To stop sharing the media file, select **Options** > **Stop showing**.

To print images saved in **Gallery** through **Home netw.** with a UPnP compatible printer, select the print option in **Gallery**. See "Image print", on page 55. **Content sharing** does not have to be switched on.

To search files with different criteria, select **Options** > **Find**. To sort the found files, select **Options** > **Sort by**.

Copy media files

To copy or transfer media files from your device to another compatible device, such as a UPnP compatible PC, select a file in **Gallery** and **Options** > **Move and copy** > **Copy to home network** or **Move to home net.**. **Content sharing** does not have to be switched on.

To copy or transfer files from the other device to your device, select a file in the other device and **Options** > **Copy to phone** or **Copy to memory card** (the name of the memory card if the memory card is available). **Content sharing** does not have to be switched on.

Positioning

The Global Positioning System (GPS) is a worldwide radio navigation system that includes 24 satellites and their ground stations that monitor the operation of the satellites. Your device has an internal GPS receiver.

A GPS terminal, such as the GPS receiver in your device, receives low-power radio signals from the satellites, and measures the travel time of the signals. From the travel time, the GPS receiver can calculate its location to the accuracy of meters.

The coordinates in the GPS are expressed in degrees and decimal degrees format using the international WGS-84 coordinate system.

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The accuracy of location data can be affected by adjustments to GPS satellites made by the United States government and is subject to change with the United States Department of Defense civil GPS policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry. Availability and quality of GPS signals may be affected by your location, buildings, natural obstacles, and weather conditions. The GPS receiver should only be used outdoors to allow reception of GPS signals.

GPS should only be used as a navigation aid. It should not be used for precise location measurement and you should never rely solely on location data from the GPS receiver for positioning or navigation.

Your device also supports Assisted GPS (A-GPS).

Assisted GPS (A-GPS) uses a packet data connection to retrieve assistance data to improve GPS performance. It decreases the time to calculate the current location of your device when your device is receiving signals from satellites.

A-GPS is a network service.

Your device is preconfigured to use the Nokia A-GPS service, if no service provider specific A-GPS settings are available. The assistance data is retrieved from the Nokia A-GPS service server only when needed.

You must have a packet data internet access point defined in the device to retrieve assistance data from the Nokia A-GPS service. To define an access point for A-GPS, press , and select **Tools** > **Settings** > **General** > **Positioning** > **Positioning server** > **Access point**. A WLAN access point cannot be used for this service. The packet data internet access point is asked when GPS is used for the first time in your device.

To enable or disable different positioning methods, Positioning (GPS) such as Bluetooth GPS, press , and select **Tools** > **Settings** > **General** > **Positioning** > **Positioning methods**.

GPS receiver



The GPS receiver is located in the bottom of the device. When using the receiver, slide the numeric keypad open and hold the device upright in your hand at an angle of about 45 degrees, with a clear view of the sky. Establishing a GPS connection may take from a couple of seconds to several minutes. Establishing a GPS connection in the car may take longer.

The GPS receiver takes its power from the battery. Using the GPS receiver may drain the battery faster.

About satellite signals

If your device cannot find the satellite signal, consider the following:

- If you are indoors, go outdoors to receive a better signal.
- If the numeric keypad slide is closed, open it.
- If you are outdoors, move to a more open space.
- Check that your hand does not cover the GPS antenna of your device. For the location of the antenna, see "GPS receiver", on page 62.
- If the weather conditions are bad, in such a case the signal strength may also be affected.
- Establishing a GPS connection may take from a couple of seconds to several minutes.

Satellite status

To check how many satellites your device has found, and whether your device is receiving satellite signals, press , and select **Tools** > **Connectivity** > **GPS data** > **Position** > **Options** > **Satellite status**. If your device has found satellites, a bar for each satellite is shown in the satellite info view. The longer the bar, the stronger the satellite signal. When your device has received enough data from the satellite signal to calculate the coordinates of your location, the bar turns black.

Initially your device must receive signals from at least four satellites to be able to calculate the coordinates of your location. When the initial calculation has been made, it may be possible to continue calculating the coordinates of your location with three satellites. However, the accuracy is generally better when more satellites are found.

Position requests

You may receive a request from a network service to receive your position information. Service providers may offer information about local topics, such as weather or traffic conditions, based upon the location of your device.

When you receive a position request, a message is displayed showing the service that is making the request. Select **Accept** to allow your position information to be sent or **Reject** to deny the request.

Maps

Press , and select **Maps**. With **Maps**, you can see your current location on the map, browse maps for different cities and countries, search for addresses and different points of interest, plan routes from one location to another, and save locations as landmarks and send them to compatible devices.

You can also purchase extra services, such as city guides and a navigation service with voice guidance.

Maps uses GPS. You can define the positioning methods used with your device in the device settings. See "Positioning", on page 114. For the most accurate location information, use either the internal GPS or the external GSP receiver.

When you use **Maps** for the first time, you may need to define an internet access point for downloading map information for your current location. To change the default access point later, select **Options** > **Settings** > **Network** > **Default access point**.

Almost all digital cartography is inaccurate and incomplete to some extent. Never rely solely on the cartography that you download for use in this device.

Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Tip! You can also download maps by using a WLAN connection. or through the internet using Nokia MapLoader. See "Download maps", on page 65.

To receive a note when your device registers to a network outside your home cellular network, select **Options** > **Settings** > **Network** > **Roaming warning** > **On**.

Browse maps

The map coverage varies by country.

When you open **Maps**, Maps zooms in to the location that was saved from your last session. If no position was saved from the last session, the **Maps** application zooms in to the major city of the country or region you are in, based on the

information the device receives from the cellular network. At the same time, the map of the location is downloaded. The maps are automatically saved in the device memory or on a compatible memory card (if inserted).

To establish a GPS connection and zoom in to your current location, select **Options** > **Find place** > **GPS position**, or press 0 .

To move on the map, scroll up, down, left, or right. To view detailed information of a location on the map, scroll to it, press ◉ and select **Show details**. To use the location, for example, as a starting point for a nearby search or to plan a route, press the scroll key, and select the desired option. To return to your current location, press 0 , or select **Options** > **Find place** > **GPS position**.

When you browse the map on the display, for example, move to another country, a new map is downloaded automatically. These downloaded maps are free of charge, but downloading may involve the transmission of large amounts of data through your service provider's network. For more information on data transmission charges, contact your service provider.

The maps are automatically saved in the device memory.

To zoom in or out on the map, press * or # . To switch between the 2-D and 3-D views, select **Options** > **Map options** > **2D/3D**.

To define what kind of points of interest are shown on the map, select **Options** > **Map options** > **Categories** and the desired categories.

To view information about satellites when you are using **Maps**, select **Options** > **Map options** > **Satellite info**. You can also see a GPS indicator on the display when browsing maps. It indicates whether your device is receiving signals from satellites. See "Satellite information", on page 64.

To save a location as a landmark, in the desired location, press ◉ , and select **Save** > **As landmark**, enter a name for the landmark, and select the categories you want to include it in.

To take a screenshot of your location, select **Save** > **As image**. The screenshot is saved in **Gallery**.

To view saved landmarks, select **Options** > **Find place** > **Landmark**. To send a landmark to a compatible device, in the landmarks view, press ◉ , and select **Send**. If you send the landmark in a text message, the information is converted to plain text.

To adjust the network, routing, and general settings, select **Options** > **Settings**.

Satellite information

A GPS indicator is shown on the display when you browse maps. The circles in the icon are satellites.

A yellow circle indicates that the device has found a satellite, and a green circle that the device is receiving signal from the satellite. When all the circles are green, the device receives enough data from the satellites to calculate the coordinates of your current location.

To check how many satellites your device has found, and whether your device is receiving satellite signals from the satellites, select **Options** > **Map options** > **Satellite info**.

If your device has found satellites, a bar for each satellite is shown in the satellite info view. The longer the bar, the stronger the satellite signal. When your device has received enough data from the satellite signal to calculate the coordinates of your location, the bar turns black.

Initially your device must receive signals from at least four satellites to be able to calculate the coordinates of your location. When the initial calculation has been made, it may be possible to continue calculating the coordinates of your location with three satellites. However, the accuracy is generally better when more satellites are found.

Download maps

When you browse the map on the display, for example, move to another country, a new map is downloaded automatically. These downloaded maps are free of charge, but downloading may involve transmission of large amounts of data through your service provider's network. For more information on data transmission charges, contact your service provider.

You can view the amount of transferred data from the data counter (kB) shown on the display. The counter shows the amount of network traffic when you browse maps, create routes, or search for locations online.

To check whether the maps that are downloaded to your device have been updated on the map server, select **Options** > **Settings** > **Network** > **Options** > **Check for map updates**.

To prevent the device from automatically downloading maps through the internet, for example, when you are outside your home cellular network, select **Options** > **Settings** > **Network** > **Use network** > **Off**.

To define how much space you want to use on a compatible memory card for saving maps data or voice guidance files, select **Options** > **Settings** > **Network** > **Max. memory card use (%)**. This option is available only when a compatible memory card is inserted. When the memory is full, the oldest map data is deleted. The saved maps data cannot be deleted manually from the memory card.

Nokia Map Loader

Nokia Map Loader is PC software that you can use to download and install maps for different countries to your

device from the internet. You can also use it to download voice files for turn-by-turn navigation.

To use Nokia Map Loader, you must first install it to a compatible PC. You can download the PC software from the internet at www.nokia.com/maps. Follow the instructions on the screen.

You must use Nokia Maps before using Nokia Map Loader. Nokia Map Loader uses the Maps history information to check the version of map data to be downloaded.

After you have installed the PC software to your PC, to download maps, do the following:

1. Connect your device to the PC by using a compatible USB data cable. Select Mass storage as the USB connection mode.
2. Open Nokia Map Loader in your PC. Nokia Map Loader checks the version of map data to be downloaded.
3. Select the maps you want, and download and install them to your device.

Search for locations

To view points of interest near your current location or other locations on the map, select **Options** > **Find place** > **Nearby** and a category.

To search for a point of interest by name, select **Options** > **Find place** > **Keyword search**, or start entering the first letters of the name, and select **Find place**.

To search for a location by address, select **Options** > **Find place** > **By address**. You must enter the city and country. To use an address you have saved to a contact card in **Contacts**, select **Options** > **Find place** > **By address** > **Options** > **Select from contacts**.

To view a search result on a map, press ◉ and select Show on map. To return to the results list, select Back.

To view a list of your previous locations, select **Options** > **Find place** > **Recent**.

Plan a route

To plan a route from one location to another (for example, from your home to your office), do the following:

1. Scroll to a point on the map, press ◉, and select **Route from**.
2. Scroll to **From**, and select **Options** > **Select** and the desired option.

   To adjust the routing settings, such as the mode of transportation, select **Options** > **Settings** > **Routing**.

3. To select the destination, scroll to **To**, and select **Options** > **Select**, and the desired option.
4. To view the route itinerary, select **Options** > **Show route**. The route is calculated using the selected routing settings.

To view the itinerary waypoints on the map, select **Options** > **Show on map**.

To run a simulation of the created route, select **Options** > **Start simulation**.

Tip! You can also use a compatible GPS receiver with Bluetooth connectivity with **Maps**. For example, in a car, an external GPS receiver can be positioned so that it has a clear view of the sky. To enable the use of an external GPS receiver, see "Positioning", on page 114.

Extra services for Maps

You can purchase and download different kinds of guides, such as city and travel guides, for different cities to your device. You can also purchase a turn-by-turn navigation service with voice guidance to use it in **Maps**.

The downloaded guides are automatically saved in the device memory or on a compatible memory card (if inserted).

Navigation

To purchase a navigation service with voice guidance to use in **Maps**, select **Options** > **Extra services** > **Add navigation**.

After purchasing the navigation upgrade, the service is available through **Maps**. The license you purchase for navigation is device specific and cannot be transferred from your device to another device.

After creating a route in **Maps**, to start navigation to the desired destination with GPS using voice guidance, select **Options** > **Start navigation**. See "Plan a route", on page 66. You can also start navigation by selecting any location on the map or in a results list, and Navigate to.

When you use navigation for the first time, you are prompted to select the language of the voice guidance, and download the voice guidance files of the selected language online. To change the language later, in **Maps** main view, select **Options** > **Settings** > **General** > **Voice guidance**, a language, and download the voice guidance files for the selected language. You can also download voice guidance files using Nokia MapLoader. See "Download maps", on page 65.

To discard the created route and use another route, select **Options** > **Alternative route**.

To view only the next turns and hide the map, select **Options** > **Map options** > **Next turns**.

To stop navigation, select **Options** > **Stop navigation**.

Guides

To purchase and download different kinds of guides, such as city and travel guides, for different cities to your device, select **Options** > **Extra services** > **Guides**.

The guides provide information about attractions, restaurants, hotels, and other points of interest. The guides must be downloaded and purchased before use.

To browse a downloaded guide, on the **My guides** tab in **Guides**, select a guide and a subcategory (if available).

To download a new guide to your device, in **Guides**, scroll right to the **Nearest guides** or **All guides** tab, select the desired guide, and press **OK**. To purchase the guide, scroll left to the **My guides** tab, select the downloaded guide, and enter your payment details. You can pay for the guides through a credit card or have the amount charged to your phone bill (if supported by your cellular network service provider).

To confirm the purchase, select **OK** twice. To receive a confirmation of the purchase through e-mail, enter your name and e-mail address, and select **OK**.

Landmarks

Press , and select **Tools** > **Connectivity** > **Landmarks**. With **Landmarks**, you can save the position information of specific locations in your device. You can sort the saved locations into different categories, such as business, and add other information, such as addresses, to them. You can use your saved landmarks in compatible applications, such as **GPS data** and **Maps**.

The coordinates in the GPS are expressed in degrees and decimal degrees format using the international WGS-84 coordinate system.

To create a new landmark, select **Options** > **New landmark**. To make a positioning request for the coordinates of your current location, select **Current position**. To enter the position information manually, select **Enter manually**.

To edit or add information to a saved landmark (for example, a street address), scroll to a landmark, and press . Scroll to the desired field and enter the information.

To view the landmark on the map, select **Options** > **Show on map**. To create a route to the location, select **Options** > **Navigate using map**.

You can sort your landmarks into the preset categories, and create new categories. To edit and create new landmark categories, press in **Landmarks**, and select **Options** > **Edit categories**.

To add a landmark to a category, scroll to the landmark in **Landmarks**, and select **Options** > **Add to category**. Scroll to each category to which you want to add the landmark, and select it.

To send one or several landmarks to a compatible device, select **Options** > **Send**. Your received landmarks are placed in the **Inbox** folder in **Messaging**.

GPS data

Press , and select **Tools** > **Connectivity** > **GPS data**. **GPS data** is designed to provide route guidance information to a selected destination, position information about your current location, and traveling information, such as the approximate distance to the destination and approximate duration of travel.

The coordinates in the GPS are expressed in degrees and decimal degrees format using the international WGS-84 coordinate system.

To use **GPS data**, the GPS receiver of your device must receive position information from at least three satellites to calculate the coordinates of your location.

Route guidance

To use route guidance, select **Navigation**. Start the route guidance outdoors. If started indoors, the GPS receiver may not receive the necessary information from the satellites.

Route guidance uses a rotating compass on the device display. A red ball shows the direction to the destination, and the approximate distance to it is shown inside the compass ring.

Route guidance is designed to show the straightest route and the shortest distance to the destination, measured in a straight line. Any obstacles on the route, such as buildings and natural obstacles, are ignored. Differences in altitude are not taken into account when calculating the distance. Route guidance is active only when you move.

To set your trip destination, select **Options** > **Set destination** and a landmark as the destination, or enter the latitude and longitude coordinates. Select **Stop navigation** to clear the destination set for your trip.

Retrieve position information

To view the position information of your current location, select **Position**. An estimate of the accuracy of the location is shown on the display.

To save your current location as a landmark, select **Options** > **Save position**.

Landmarks are saved locations with more information, and they can be used in other compatible applications and transferred between compatible devices.

Trip meter

Select **Trip distance** > **Options** > **Start** to activate trip distance calculation, and **Stop** to deactivate it. The calculated values remain on the display. Use this feature outdoors to receive a better GPS signal.

Select **Reset** to set the trip distance and time and average and maximum speeds to zero, and to start a new calculation. Select **Restart** to also set the odometer and total time to zero.

The trip meter has limited accuracy, and rounding errors may occur. Accuracy can also be affected by availability and quality of GPS signals.

Personalise your device

To personalise your device, select from the following:

- To use the standby display for fast access to your most frequently used applications, see "Active standby mode", on page 74.
- To change the standby mode background image or what is shown in the screen saver, see "Change the look of your device", on page 73.
- To customise the ringing tones, see "Profiles — set tones", on page 71 and "Add ringing tones for contacts", on page 99.
- To change the shortcuts assigned for the different presses of the scroll key and left and right selection keys in the standby mode, see "Standby mode", on page 110.
- To change the clock shown in the standby mode, press , and select **Applications** > **Clock** > **Options** > **Settings** > **Clock type** > **Analogue** or **Digital**.
- To change the welcome note to an image or animation, press , and select **Tools** > **Settings** > **General** > **Personalisation** > **Display** > **Welcome note / logo**.
- To change the main menu view, in the main menu, select **Options** > **Change Menu view** > **Grid** or **List**.
- To use animated icons in your device, in the main menu, select **Options** > **Icon animation** > **On**.
- To rearrange the main menu, in the main menu, select **Options** > **Move**, **Move to folder**, or **New folder**. You can move less used applications into folders and place applications that you use more often into the main menu.

Profiles — set tones

To set and customise the ringing tones, message alert tones, and other tones for different events, environments, or caller groups, press , and select **Tools** > **Profiles**.

To change the profile, select **Tools** > **Profiles**, a profile, and **Options** > **Activate**. You can also change the profile by pressing in the standby mode. Scroll to the profile you want to activate, and select **OK**.

Tip! To switch between the general and silent profiles, press and hold # .

To modify a profile, press , and select **Tools** > **Profiles**. Scroll to the profile, and select **Options** > **Personalise**. Scroll to the setting you want to change, and press to open the choices. Tones stored on a compatible memory card (if inserted) are indicated with .

In the tones list, the **Download sounds** link (network service) opens a list of bookmarks. You can select a bookmark and start connection to a web page to download more tones.

If you want the caller's name to be spoken when your device rings, select **Options** > **Personalise**, and set **Say caller's name** to **On**. The caller's name must be saved in **Contacts**.

To create a new profile, select **Options** > **Create new**.

Offline profile

The **Offline** profile lets you use the device without connecting to the wireless network. When you activate the **Offline** profile, the connection to the wireless network is turned off, as indicated by ✖ in the signal strength indicator area. All wireless RF signals to and from the device are prevented. If you try to send messages, they are placed in the outbox to be sent later.

When the **Offline** profile is active, you can use your device without a (U)SIM card.

Important: In the offline profile you cannot make or receive any calls, or use other features that require cellular network coverage. Calls may still be possible to the official emergency number programmed into your device. To make calls, you must first activate the phone function by changing profiles. If the device has been locked, enter the lock code.

When you have activated the **Offline** profile, you can still use the wireless LAN, for example, to read your e-mail or browse on the internet. Remember to comply with any applicable safety requirements when establishing and using a wireless LAN connection. See "Wireless LAN", on page 16. You can also use Bluetooth connectivity while in the **Offline** profile. See "Bluetooth connectivity", on page 18.

To leave the **Offline** profile, press the power key, and select another profile. The device re-enables wireless transmissions (providing there is sufficient signal strength).

3-D tones

Press , and select **Tools** > **3-D tones**. With **3-D tones** you can enable three-dimensional sound effects for ringing tones. Not all ringing tones support 3-D effects.

To enable the 3-D effects, select **3-D ringing tone effects** > **On**. To change the ringing tone, select **Ringing tone** and the desired ringing tone.

To change the 3-D effect that is applied to the ringing tone, select **Sound trajectory** and the desired effect. To modify the effect, select from the following settings:

Trajectory speed — Scroll left or right to adjust the speed at which sound moves from one direction to another. This setting is not available for all ringing tones.

Reverberation — Select the type of echo.

Doppler effect — Select **On** to have the ringing tone sound higher when you are closer to your device, and lower when you are farther away. When you get closer to the device, the ringing tone appears to become higher, and lower when you move away from it. This setting is not available for all ringing tones and sound trajectories.

To listen to the ringing tone with the 3–D effect, select **Options** > **Play tone**.

If you enable the 3-D tones but do not select any 3-D effect, stereo widening is applied to the ringing tone.

To adjust the ringing tone volume, select **Tools** > **Profiles** > **Options** > **Personalise** > **Ringing volume**.

Change the look of your device

To change the look of the display, such as the wallpaper and icons, press , and select **Tools** > **Settings** > **General** > **Personalisation** > **Themes**.

To change the theme that is used for all the applications in your device, select **Themes** > **General**. To change the theme of a certain application, in the main view, select an application.

To preview a theme before activating it, select **Options** > **Preview**. To activate the theme, select **Options** > **Set**. The active theme is indicated by ✓.

The themes on a compatible memory card (if inserted) are indicated by . The themes on the memory card are not available if the memory card is not inserted in the device. If you want to use the themes saved in the memory card without the memory card, save the themes in the device memory first.

To change the layout of the main menu, select **Themes** > **Menu view**.

To open a browser connection and download more themes, in **General** or **Menu view**, select **Download themes** (network service).

Important: Use only services that you trust and that offer adequate security and protection against harmful software.

To edit the wallpaper and power saver of the current theme, select **Themes** > **Wallpaper** to change the background image on the display for the active standby mode or **Power saver** to change the power saver that appears on the display for the active standby mode. See also "Display", on page 109 for power saver time-out setting.

Active standby mode

The active standby display shows application shortcuts, and events from applications such as calendar and player.

To switch the active standby on or off, press , and select **Tools** > **Settings** > **General** > **Personalisation** > **Standby mode** > **Active standby**.

Scroll to an application or event, and press .



The standard scroll key shortcuts available in the standby mode cannot be used when the active standby mode is on.

To change the default applications' shortcuts, press , and select **Tools** > **Settings** > **General** > **Personalisation** > **Standby mode** > **Active standby apps.**.

Some shortcuts may be fixed, and you cannot change them.

Time management

Clock

Press , and select **Applications** > **Clock**. To set a new non-repeated alarm, select **Options** > **New quick alarm**. To view your active and inactive alarms, press . To set a new alarm, select **Options** > **Set alarm**. When an alarm is active, is shown.

To turn off the alarm, select **Stop**. To stop the alarm for 5 minutes, select **Snooze**.

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless phone use may cause interference or danger.

To cancel an alarm, select **Applications** > **Clock** > **Options** > **Remove alarm**.

To change clock settings, select **Applications** > **Clock** > **Options** > **Settings** > **Time** or **Date**, **Clock type**, or **Clock alarm tone**.

To allow the mobile phone network to update the time, date, and time zone information to your device (network service), select **Network operator time** > **Auto-update**.

World clock

To open the world clock view, select **Clock**, and press twice. In the world clock view, you can view the time in different cities. To add cities to the list, select **Options** > **Add city**. You can add a maximum of 15 cities to the list.

To set your current city, scroll to a city, and select **Options** > **Set as current city**. The city is displayed in the clock main view, and the time in your device is changed according to the city selected. Check that the time is correct and matches your time zone.

Calendar

Press , and select **Applications** > **Calendar**. To add a new calendar entry, scroll to the desired date, select **Options** > **New entry** and one of the following:

1 **Meeting** — to remind you of an appointment that has a specific date and time
Memo — to write a general entry for a day

Anniversary — to remind you of birthdays or special dates (entries are repeated every year)
To-do — to remind you of a task that needs doing by a specific date

2 Fill in the fields. To set an alarm, select **Alarm** > **On**, and enter the **Alarm time** and **Alarm date**.
To add a description for an entry, select **Options** > **Add description**.



3 To save the entry, select **Done**.

Shortcut: In the day, week, or month calendar view, press any key (1 — 0). An appointment entry opens, and the characters you enter are added to **Subject**. In the to-do view, a to-do note entry opens.

When the calendar alarms for a note, select **Silence** to turn off the calendar alarm tone. The reminder text stays on the screen. To end the calendar alarm, select **Stop**. To set the alarm to snooze, select **Snooze**.

You can synchronise your calendar with a compatible PC using Nokia Nseries PC Suite. When creating a calendar entry, set the desired **Synchronisation** option.

Calendar views

Select **Options** > **Settings** to change the starting day of the week or the view that is shown when you open the calendar.

To go to a certain date, select **Options** > **Go to date**. To jump to today, press # .

To switch between the month view, week view, day view, and to-do view, press * .

To send a calendar note to a compatible device, select **Options** > **Send**.

If the other device is not compatible with Coordinated Universal Time (UTC), the time information of received calendar entries may not be displayed correctly.

To modify the calendar, select **Options** > **Settings** > **Calendar alarm tone**, **Default view**, **Week starts on**, and **Week view title**.

Manage your calendar entries

To delete more than one event at a time, go to the month view, and select **Options** > **Delete entry** > **Before date** or **All entries**.

To mark a task as completed, scroll to it in the to-do view, and select **Options** > **Mark as done**.

Messaging

Press , and select **Messaging** (network service).

Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may vary depending on the receiving device.

To create a new message, select **New message**.

Messaging contains the following folders:

Inbox — Received messages, except e-mail and cell broadcast messages, are stored here. E-mail messages are stored in the **Mailbox**.

My folders — Organise your messages into folders.

Tip! To avoid rewriting messages that you send often, use texts in the templates folder. You can also create and save your own templates.

Mailbox — Connect to your remote mailbox to retrieve your new e-mail messages or view your previously retrieved e-mail messages offline. See "E-mail", on page 84.

Drafts — Draft messages that have not been sent are stored here.

Sent — The last messages that have been sent, excluding messages sent using Bluetooth connectivity or infrared, are stored here. To change the number of messages to be saved, see "Other settings", on page 87.

Outbox — Messages waiting to be sent are temporarily stored in the outbox, for example, when your device is outside network coverage.

Reports — You can request the network to send you a delivery report of the text messages and multimedia messages you have sent (network service).

To enter and send service requests (also known as USSD commands), such as activation commands for network services, to your service provider, select **Options** > **Service command** in the main view of **Messaging**.

Cell broadcast (network service) allows you to receive messages on various topics, such as weather or traffic conditions, from your service provider. For available topics and relevant topic numbers, contact your service provider. In the main view of **Messaging**, select **Options** > **Cell broadcast**.

Cell broadcast messages cannot be received in UMTS networks. A packet data connection may prevent cell broadcast reception.

Write text

ABC, **abc**, and **Abc** indicate the selected character mode. **123** indicates the number mode.

To switch between the letter and number mode, press and hold # . To switch between the different character modes, press # .

To insert a number in the letter mode, press and hold the desired number key.

is displayed when you write text using traditional text input and when using predictive text input.

With predictive text, you can enter any letter with a single keypress. Predictive text input is based on a built-in dictionary to which you can add new words.

To activate predictive text input, press , and select **Activate predictive text**.

Tip! To turn predictive text input on or off, quickly press # twice.

Edit text and lists

- To mark an item in a list, scroll to it, and press and at the same time.
- To mark multiple items in a list, press and hold while you press or . To end the selection, release , then release .
- To copy and paste text, while pressing and holding , press or to highlight text. To copy the text to clipboard, while still holding , select **Copy**. To insert the text into a document, press and hold , and select **Paste**.

Write and send messages

Before you can create a multimedia message or write an e-mail, you must have the correct connection settings in place. See "E-mail settings", on page 81 and "E-mail", on page 84.

The wireless network may limit the size of MMS messages. If the inserted picture exceeds this limit, the device may make it smaller so that it can be sent by MMS.

1 Select **New message** and from the following:
   Text message — to send a text message
   Multimedia message — to send a multimedia message (MMS)
   Audio message — to send an audio message (a multimedia message that includes one sound clip)
   E-mail — to send an e-mail
2 In the **To** field, press to select recipients or groups from contacts, or enter the recipient's phone number or e-mail address. To add a semicolon (;) that separates the recipients, press * . You can also copy and paste the number or address from the clipboard.

3 In the **Subject** field, enter the subject of a multimedia message or e-mail. To change the fields that are visible, select **Options** > **Address fields**.

4 In the message field, write the message. To insert a template, select **Options** > **Insert** or **Insert object** > **Template**.



5 To add a media object to a multimedia message, select **Options** > **Insert object** > **Image**, **Sound clip**, or **Video clip**.

6 To take a new picture or record sound or video for a multimedia message, select **Insert new** > **Image**, **Sound clip**, or **Video clip**. To insert a new slide to the message, select **Slide**. To see what the multimedia message looks like, select **Options** > **Preview**.

7 To add an attachment to an e-mail, select **Options** > **Insert** > **Image**, **Sound clip**, **Video clip**, **Note**, or **Other** for other file types. E-mail attachments are indicated by .

8 To send the message, select **Options** > **Send**, or press .

Note: Your device may indicate that your message was sent to the message center number programmed into your device. Your device may not indicate whether the message is received at the intended destination. For more details about messaging services, contact your service provider.

Your device supports the sending of text messages beyond the character limit for a single message. Longer messages are sent as a series of two or more messages. Your service provider may charge accordingly. Characters that use accents or other marks, and characters from some language options, take up more space, limiting the number of characters that can be sent in a single message.

You may not be able to send video clips that are saved in the .mp4 format or that exceed the size limit of the wireless network in a multimedia message.

Tip! You can combine images, video, sound, and text to a presentation and send it in a multimedia message. Start to create a multimedia message, and select **Options** > **Create presentation**. The option is shown only if **MMS creation mode** is set to **Guided** or **Free**. See "Multimedia messages", on page 83.

Inbox — receive messages

In the **Inbox** folder, indicates an unread text message, an unread multimedia message, an unread audio message, data received through infrared, and data received through Bluetooth connectivity.

When you receive a message, and **1 new message** are shown in the standby mode. To open the message, select **Show**. To open a message in **Inbox**, scroll to it, and press . To reply to a received message, select **Options** > **Reply**

Multimedia messages

Important: Exercise caution when opening messages. Multimedia message objects may contain malicious software or otherwise be harmful to your device or PC.

You may receive a notification that a multimedia message is waiting in the multimedia message center. To start a packet data connection to retrieve the message to your device, select **Options** > **Retrieve**.

When you open a multimedia message ( ), you may see an image and a message. is shown if sound is included, or if video is included. To play the sound or the video, select the indicator.

To see the media objects that have been included in the multimedia message, select **Options** > **Objects**.

If the message includes a multimedia presentation, is displayed. To play the presentation, select the indicator.

Data and settings

Your device can receive many kinds of messages that contain data, such as business cards, ringing tones, operator logos, calendar entries, and e-mail notifications. You may also receive settings from your service provider or company information management department in a configuration message.

To save the data from the message, select **Options** and the corresponding option.

Web service messages

Web service messages are notifications (for example, news headlines) and may contain a text message or a link. For availability and subscription, contact your service provider.

Mailbox

E-mail settings

Tip! Use **Settings wizard** to define your mailbox settings. Press , and select **Tools** > **Utilities** > **Sett. wizard**.

To use e-mail, you must have a valid internet access point (IAP) in the device and define your e-mail settings correctly. See "Access points", on page 117.

If you select **Mailbox** in the **Messaging** main view and have not set up your e-mail account, you are prompted to do so. To start creating the e-mail settings with the mailbox guide, select **Start**. See also "E-mail", on page 84.

You must have a separate e-mail account. Follow the instructions given by your remote mailbox and internet service provider (ISP).

When you create a new mailbox, the name you give to the mailbox replaces **Mailbox** in the **Messaging** main view. You can have up to six mailboxes.

Open the mailbox

When you open the mailbox, the device asks if you want to connect to the mailbox (**Connect to mailbox?**).

To connect to your mailbox and retrieve new e-mail headings or messages, select **Yes**. When you view messages online, you are continuously connected to a remote mailbox using a data connection.

To view previously retrieved e-mail messages offline, select **No**.

To create a new e-mail message, select **New message** > **E-mail** in the messaging main view or **Options** > **Create message** > **E-mail** in your mailbox. See "Write and send messages", on page 78.

Retrieve e-mail messages

If you are offline, select **Options** > **Connect** to start a connection to the remote mailbox.

Important: Exercise caution when opening messages. E-mail messages may contain malicious software or otherwise be harmful to your device or PC.

1. When you have an open connection to a remote mailbox, select **Options** > **Retrieve e-mail** and one of the following:
   New — to retrieve all new messages
   Selected — to retrieve only the messages that have been marked
   All — to retrieve all messages from the mailbox
   To stop retrieving messages, select **Cancel**.

2 If you want to close the connection and view the e-mail messages offline, select **Options** > **Disconnect**.
3 To open an e-mail message, press . If the e-mail message has not been retrieved and you are offline, you are asked if you want to retrieve this message from the mailbox.

To view e-mail attachments, open the message, and select the attachment field indicated by . If the attachment has a dimmed indicator, it has not been retrieved to the device; select **Options** > **Retrieve**.

Retrieve e-mail messages automatically

To retrieve messages automatically, select **Options** > **E-mail settings** > **Automatic retrieval**. For more information, see "Automatic retrieval", on page 86.

Setting the device to retrieve e-mail automatically may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Delete e-mail messages

To delete the contents of an e-mail message from the device while still retaining it in the remote mailbox, select **Options** > **Delete**. In **Delete message from:**, select **Phone only**.

The device mirrors the e-mail headings in the remote mailbox. Although you delete the message content, the e-mail heading stays in your device. If you want to remove the heading as well, you must first delete the e-mail message from your remote mailbox, and then make a connection from your device to the remote mailbox again to update the status.

To delete an e-mail from the device and the remote mailbox, select **Options** > **Delete**. In **Delete message from:**, select **Phone and server**.

To cancel deleting an e-mail from the device and server, scroll to an e-mail that has been marked to be deleted during the next connection ( ), and select **Options** > **Restore**.

Disconnect from the mailbox

When you are online, to end the data connection to the remote mailbox, select **Options** > **Disconnect**.

View messages on a SIM card

Before you can view SIM messages, you must copy them to a folder in your device.

1 In the **Messaging** main view, select **Options** > **SIM messages**.

2 Select **Options** > **Mark/Unmark** > **Mark** or **Mark all** to mark messages.
3 Select **Options** > **Copy**. A list of folders opens.
4 To start copying, select a folder and **OK**. To view the messages, open the folder.

Messaging settings

Fill in all fields marked with **Must be defined** or with a red asterisk. Follow the instructions given by your service provider. You may also obtain settings from your service provider in a configuration message.

Some or all message centers or access points may be preset for your device by your service provider, and you may not be able to change, create, edit, or remove them.

Text messages

Press , and select **Messaging** > **Options** > **Settings** > **Text message** and from the following:

Message centres — View a list of all text message centers that have been defined.

Character encoding — To use character conversion to another encoding system when available, select **Reduced support**.

Message centre in use — Select which message center is used to deliver text messages.

Receive report — Select whether the network sends delivery reports on your messages (network service).

Message validity — Select how long the message center resends your message if the first attempt fails (network service). If the message cannot be sent within the validity period, the message is deleted from the message center.

Message sent as — Contact your service provider to learn if your message center is able to convert text messages into these other formats.

Preferred connection — Select the connection to be used.

Reply via same centre — Select whether you want the reply message to be sent using the same text message center number (network service).

Multimedia messages

Press , and select **Messaging** > **Options** > **Settings** > **Multimedia message** and from the following:

Image size — Define the size of the image in a multimedia message.

MMS creation mode — If you select **Guided**, the device informs you if you try to send a message that may not be supported by the recipient. If you select **Restricted**, the

device prevents you from sending messages that may not be supported. To include content in your messages without notifications, select **Free**.

Access point in use — Select which access point is used as the preferred connection.

Multimedia retrieval — Select how you want to receive messages. To receive messages automatically in your home cellular network, select **Auto in home netw.**. Outside your home cellular network, you receive a notification that there is a message to retrieve in the multimedia message center.

Outside your home cellular network, sending and receiving multimedia messages may cost you more.

If you select **Multimedia retrieval** > **Always automatic**, your device automatically makes an active packet data connection to retrieve the message both in and outside your home cellular network.

Allow anon. msgs. — Select whether you want to reject messages from an anonymous sender.

Receive adverts — Define whether you want to receive multimedia message advertisements.

Receive report — Select whether you want the status of the sent message to be shown in the log (network service).

Deny report sending — Select whether you want to deny your device sending delivery reports of received messages.

Message validity — Select how long the message center resends your message if the first attempt fails (network service). If the message cannot be sent within the validity period, the message is deleted from the message center.

E-mail

Press , and select **Messaging** > **Options** > **Settings** > **E-mail**.

To select which mailbox you want to use for sending e-mail, select **Mailbox in use** and a mailbox.

Select **Mailboxes** and a mailbox to change the following settings: **Connection settings**, **User settings**, **Retrieval settings**, and **Automatic retrieval**.

To remove a mailbox and its messages from your device, scroll to it, and press C.

To create a new mailbox, select **Options** > **New mailbox**.

Connection settings

To edit the settings for the e-mail you receive, select **Incoming e-mail** and from the following:

User name — Enter your user name, given to you by your service provider.

Password — Enter your password. If you leave this field blank, you are prompted for the password when you try to connect to your remote mailbox.

Incoming mail server — Enter the IP address or host name of the mail server that receives your e-mail.

Access point in use — Select an internet access point (IAP). See "Access points", on page 117.

Mailbox name — Enter a name for the mailbox.

Mailbox type — Defines the e-mail protocol that your remote mailbox service provider recommends. The options are **POP3** and **IMAP4**. This setting cannot be changed.

Security (ports) — Select the security option used to secure the connection to the remote mailbox.

Port — Define a port for the connection.

APOP secure login (for POP3 only) — Use with the POP3 protocol to encrypt the sending of passwords to the remote e-mail server while connecting to the mailbox.

To edit the settings for the e-mail you send, select **Outgoing e-mail** and from the following:

My e-mail address — Enter the e-mail address given to you by your service provider.

Outgoing mail server — Enter the IP address or host name of the mail server that sends your e-mail. You may only be able to use the outgoing server of your service provider. Contact your service provider for more information.

The settings for **User name**, **Password**, **Access point in use**, **Security (ports)**, and **Port** are similar to the ones in **Incoming e-mail**.

User settings

My name — Enter your own name. Your name replaces your e-mail address in the recipient's device when the recipient's device supports this function.

Send message — Define how e-mail is sent from your device. Select **Immediately** for the device to connect to the mailbox when you select **Send message**. If you select **During next conn.**, e-mail is sent when the connection to the remote mailbox is available.

Send copy to self — Select whether you want to send a copy of the e-mail to your own mailbox.

Include signature — Select whether you want to attach a signature to your e-mail messages.

New e-mail alerts — Select whether you want to receive the new e-mail indications (a tone, a note, and a mail indicator) when new mail is received.

Retrieval settings

E-mail to retrieve — Define which parts of the e-mail are retrieved: **Headers only**, **Partially (kB)** (POP3), or **Msgs. & attachs.** (POP3).

Retrieval amount — Define how many new e-mail messages are retrieved to the mailbox.

IMAP4 folder path (for IMAP4 only) — Define the folder path for folders to be subscribed.

Folder subscriptions (for IMAP4 only) — Subscribe to other folders in the remote mailbox and retrieve content from those folders.

Automatic retrieval

E-mail notifications — To automatically retrieve the headings to your device when you receive new e-mail in your remote mailbox, select **Auto-update** or **Only in home netw.**.

E-mail retrieval — To automatically retrieve the headings of new e-mail messages from your remote mailbox at defined times, select **Enabled** or **Only in home netw.**. Define when and how often the messages are retrieved.

E-mail notifications and **E-mail retrieval** cannot be active at the same time.

Setting the device to retrieve e-mail automatically may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Web service messages

Press , and select **Messaging** > **Options** > **Settings** > **Service message**. Select whether you want to receive service messages. If you want to set the device to automatically activate the browser and start a network connection to retrieve content when you receive a service message, select **Download messages** > **Automatically**.

Cell broadcast

Check the available topics and related topic numbers with your service provider. Press , and select **Messaging** > **Options** > **Settings** > **Cell broadcast** and from the following:

Reception — Select whether you want to receive cell broadcast messages.

Language — Select the languages in which you want to receive messages: **All**, **Selected**, or **Other**.

Topic detection — Select whether the device automatically searches for new topic numbers, and saves the new numbers without a name to the topic list.

Other settings

Press , and select **Messaging** > **Options** > **Settings** > **Other** and from the following:

Save sent messages — Select whether you want to save a copy of the text messages, multimedia messages, or e-mail that you send to the **Sent** folder.

Number of saved msgs. — Define how many sent messages are saved to the **Sent** folder at a time. When the limit is reached, the oldest message is deleted.

Memory in use — If a compatible memory card is inserted in the device, select the memory where you want to save your messages: **Phone memory** or **Memory card**.

Make calls

Voice calls

1 In the standby mode, enter the phone number, including the area code. To remove a number, press C. For international calls, press * twice for the + character (replaces the international access code), and enter the country code, area code (omit the leading zero if necessary), and phone number.
2 Press to call the number.
3 Press to end the call (or to cancel the call attempt). Pressing always ends a call, even if another application is active. Closing the slide does not end an active voice call.

To adjust the volume during a call, use the volume key on the side of your device. You can also use the scroll key. If you have set the volume to **Mute**, select **Unmute** first.

To make a call from **Contacts**, press , and select **Contacts**. Scroll to the desired name, or enter the first letters of the name to the search field. Matching contacts are listed. To call, press .

You must copy the contacts from your SIM card to **Contacts** before you can make a call this way. See "Copy contacts", on page 98.

To call a recently dialled number in the standby mode, press . Scroll to the number, and press .

To send an image or a video clip in a multimedia message to the other participant of the call, select **Options** > **Send MMS** (in UMTS networks only). You can edit the message and change the recipient before sending. Press to send the file to a compatible device (network service).

To put an active voice call on hold while answering another incoming call, select **Options** > **Hold**. To switch between the active and the held call, select **Options** > **Swap**. To connect the active and held calls and drop yourself from the line, select **Options** > **Transfer**.

To send DTMF tone strings (for example, a password), select **Options** > **Send DTMF**. Enter the DTMF string or search for it in **Contacts**. To enter a wait character (**w**) or a pause character (**p**), press * repeatedly. Select **OK** to send the tone. You can add DTMF tones to the **Phone number** or **DTMF** fields in a contact card.

Tip! When you have only one active voice call, to put the call on hold, press . To activate the call, press again.

During an active call, to route the sound from the handset to the loudspeaker, select **Options** > **Activate**

loudspeaker. If you have attached a compatible headset with Bluetooth connectivity, to route the sound to the headset, select **Options** > **Activate handsfree**. To switch back to the handset, select **Options** > **Activate handset**.

To end an active call and replace it by answering the waiting call, select **Options** > **Replace**.

If you have several calls active, to end them all, select **Options** > **End all calls**.

Many of the options that you can use during a voice call are network services.

Voice and video mailboxes

To call your voice or video mailbox (network services, video mailbox available only in the UMTS network), press and hold **1** in the standby mode, and select **Voice mailbox** or **Video mailbox**. See also "Call divert", on page 115, and "Video calls", on page 90.

To change the phone number of your voice or video mailbox, press [menu key], and select **Tools** > **Utilities** > **Call mailbox**, a mailbox, and **Options** > **Change number**. Enter the number (obtained from your wireless service provider), and select **OK**.

Make a conference call

1 Make a call to the first participant.
2 To make a call to another participant, select **Options** > **New call**. The first call is automatically put on hold.
3 When the new call is answered, to join the first participant in the conference call, select **Options** > **Conference**.
To add a new person to the call, repeat step 2, and select **Options** > **Conference** > **Add to conference**. Your device supports conference calls between a maximum of six participants, including yourself.
To have a private conversation with one of the participants, select **Options** > **Conference** > **Private**. Select a participant, and select **Private**. The conference call is put on hold on your device. The other participants can still continue the conference call. After you finish the private conversation, select **Options** > **Add to conference** to return to the conference call.
To drop a participant, select **Options** > **Conference** > **Drop participant**, scroll to the participant, and select **Drop**.
4 To end the active conference call, press [end key].

Speed dial a phone number

To activate speed dialling, press [menu key], and select **Tools** > **Settings** > **Phone** > **Call** > **Speed dialling** > **On**.

To assign a phone number to one of the speed dialling keys (**2** – **9**), press [menu key], and select **Tools** > **Utilities** > **Speed**

dial. Scroll to the key to which you want to assign the phone number, and select **Options** > **Assign**. **1** is reserved for the voice or video mailbox, and **0** for starting the web browser.

To call in the standby mode, press the speed dial key and the call key.

Voice dialling

Your device supports enhanced voice commands. Enhanced voice commands are not dependent on the speaker's voice, so the user does not record voice tags in advance. Instead, the device creates a voice tag for the entries in contacts, and compares the spoken voice tag to it. The voice recognition in the device adapts to the main user's voice to recognise the voice commands better.

The voice tag for a contact is the name or nickname that is saved on the contact card. To listen to the synthesised voice tag, open a contact card, and select **Options** > **Play voice tag**.

Make a call with a voice tag

Note: Using voice tags may be difficult in a noisy environment or during an emergency, so you should not rely solely upon voice dialling in all circumstances.

When you use voice dialling, the loudspeaker is in use. Hold the device at a short distance away when you say the voice tag.

1. To start voice dialling, in the standby mode, press and hold the right selection key. If a compatible headset with the headset key is attached, press and hold the headset key to start voice dialling.
2. A short tone is played, and **Speak now** is displayed. Say clearly the name or nickname that is saved on the contact card.
3. The device plays a synthesised voice tag for the recognised contact in the selected device language, and displays the name and number. After a timeout of 2.5 seconds, the device dials the number.
   If the recognised contact was not correct, select **Next** to view a list of other matches or **Quit** to cancel voice dialling.

If several numbers are saved under the name, the device selects the default number if it has been set. Otherwise the device selects the first available number of the following: **Mobile**, **Mobile (home)**, **Mobile (business)**, **Telephone**, **Tel. (home)**, and **Tel. (business)**.

Video calls

When you make a video call (network service), you can see a real-time, two-way video between you and the recipient of the call. The live video image, or video image captured by the camera in your device is shown to the video call recipient.

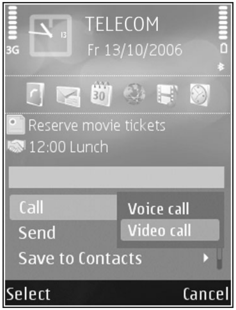
To be able to make a video call, you must have a USIM card and be in the coverage of a UMTS network. For availability of and subscription to video call services, contact your wireless service provider.

A video call can only be made between two parties. The video call can be made to a compatible mobile device or an ISDN client. Video calls cannot be made while another voice, video, or data call is active.

Icons:

You are not receiving video (the recipient is not sending video or the network is not transmitting it).

You have denied video sending from your device. To send a still image instead, see "Call", on page 114.



Even if you denied video sending during a video call, the call is still charged as a video call. Check the pricing with your service provider.

1 To start a video call, enter the phone number in the standby mode, or select **Contacts** and a contact.
2 Select **Options** > **Call** > **Video call**.

The secondary camera on the front is used by default for video calls. If the lens cover is open, the main camera is used instead. Starting a video call may take a while. **Waiting for video image** is shown. If the call is not successful (for example, video calls are not supported by the network, or the receiving device is not compatible), you are asked if you want to try a normal call or send a text or multimedia message instead.

The video call is active when you see two video images, and hear the sound through the loudspeaker. The call recipient may deny video sending ( ), in which case you only hear the sound and may see a still image or a grey background graphic.

To change between showing video or hearing only sound, select **Options** > **Enable** or **Disable** > **Sending video**, **Sending audio** or **Sending aud. & video**.

To zoom in or out your own image, press or .

To switch the places of the sent video images on the display, select **Options** > **Change image order**.

To route the audio to a compatible headset with Bluetooth connectivity attached to your device, select **Options** > **Activate handsfree**. To route the audio back to the loudspeaker of your device, select **Options** > **Activate handset**.

To adjust the volume during a video call, use the volume key on the side of the device.

To use the main camera for sending video, open the lens cover in the back. To switch to the secondary camera, select **Options** > **Use secondary camera**. To switch back to the main camera, select **Options** > **Use main camera**.

To end the video call, press ⮐ .

Video sharing

Use **Video sharing** (network service) to send live video or a video clip from your mobile device to another compatible mobile device during a voice call.

The loudspeaker is active when you activate **Video sharing**. If you do not want to use the loudspeaker for the voice call while you share video, you can also use a compatible headset.

Video sharing requirements

Because **Video sharing** requires a UMTS connection, your ability to use **Video sharing** depends on the UMTS network availability. Contact your service provider for more information on the service and network availability, and fees associated with using this service.

To use **Video sharing** you must do the following:

- Ensure that your device is set up for person-to-person connections. See "Settings", on page 92.
- Ensure you have an active UMTS connection and are within UMTS network coverage. See "Settings", on page 92. If you start the sharing session while you are within UMTS network coverage and a handover to GSM occurs, the sharing session is discontinued, but your voice call continues. You cannot start **Video sharing** if you are not within UMTS network coverage.
- Ensure that both the sender and recipient are registered to the UMTS network. If you invite someone to a sharing session and the recipient's device is not within UMTS network coverage, or does not have **Video sharing** installed or person-to-person connections set up, the recipient does not know that you are sending an invitation. You receive an error message that the recipient cannot accept the invitation.

Settings

Person-to-person connection settings

A person-to-person connection is also known as a Session Initiation Protocol (SIP) connection. The SIP profile settings must be configured in your device before you can use **Video sharing**.

Ask your service provider for the SIP profile settings, and save them in your device. Your service provider may send you the settings over the air or give you a list of the needed parameters.

If you know a recipient's SIP address, you can enter it on the person's contact card. Open **Contacts** from your device main menu, and open the contact card (or start a new card for that person). Select **Options** > **Add detail** > **SIP** or **Share view**. Enter the SIP address in the format username@domainname (you can use an IP address instead of a domain name).

If you do not know a SIP address for the contact, you can also use the phone number of the recipient including the country code, for example +358, to share video (if supported by the wireless service provider).

UMTS connection settings

To set up your UMTS connection, do the following:

- Contact your service provider to establish an agreement for you to use the UMTS network.
- Ensure that your device UMTS access point connection settings are configured properly. For help, see "Connection", on page 116.

Share live video or video clip

1 When a voice call is active, select **Options** > **Share video** > **Live video**, and open the lens cover in the back. To share a video clip, select **Options** > **Share video** > **Recorded clip**. A list of video clips saved on the device memory or compatible memory card opens. Select a clip you want to share. To preview the clip, select **Options** > **Play**.
2 If you share live video, your device sends the invitation to the SIP address you have added to the contact card of the recipient.
If you share a video clip, select **Options** > **Invite**. You may need to convert the video clip into a suitable format to be able to share it. **Clip must be converted for sharing. Continue?** appears. Select **OK**.
If the contact information of the recipient is saved in **Contacts**, and the contact has several SIP addresses or phone numbers including the country code, select the desired address or number. If the SIP address or phone number of the recipient is not available, enter the SIP address or the phone number of the recipient including the country code, and select **OK** to send the invitation.
3 Sharing begins automatically when the recipient accepts the invitation.
4 Select **Pause** to pause the sharing session. Select **Continue** to resume sharing. To fast forward or rewind the video clip, press or . To play the clip again, press **Play**.
5 To end the sharing session, select **Stop**. To end the voice call, press . Video sharing also ends if the active voice call ends.

To save the live video you shared, select **Save** to accept the **Save shared video clip?** query. The shared video is saved in the **Images & videos** folder in **Gallery**.

If you access other applications while you are sharing a video clip, the sharing is paused. To return to the video sharing view and continue sharing, in the active standby mode, select **Options** > **Continue**. See "Active standby mode", on page 74.

Accept an invitation

When someone sends you a share invitation, an invitation message is displayed showing the sender's name or SIP address. If your device is not set to **Silent**, it rings when you receive an invitation.

If someone sends you a share invitation and you are not within UMTS network coverage, you will not know that you received an invitation.

When you receive an invitation, select from the following:

Accept — to activate the sharing session.

Reject — to decline the invitation. The sender receives a message that you rejected the invitation. You can also press the end key to decline the sharing session and disconnect the voice call.

When you are receiving a video clip, to mute the sound of the clip, select **Mute**.

To end video sharing, select **Stop**. Video sharing also ends if the active voice call ends.

Answer or decline a call

To answer the call, press , or open the slide.

To mute the ringing tone when a call comes in, select **Silence**.

If you do not want to answer a call, press . If you have activated the **Call divert** > **If busy** function to divert calls, declining an incoming call also diverts the call. See "Call divert", on page 115.

When you select **Silence** to mute the ringing tone of the incoming call, you can send a text message without rejecting the call informing the caller that you cannot answer the call. Select **Options** > **Send text message**. To set up this option and write a standard text message, see "Call", on page 114.

Answer or reject a video call

When a video call arrives, is displayed.

Press to answer the video call. **Allow video image to be sent to caller?** is displayed. To start sending live video image, select **Yes**.

If you do not activate the video call, video sending is not activated, and you only hear the sound of the caller. A grey screen replaces the video image. To replace the grey screen with a still image captured by the camera in your device, see "Call", **Image in video call**, on page 114.

To end the video call, press .

Call waiting

You can answer a call while you have another call in progress if you have activated **Call waiting** in **Tools** > **Settings** > **Phone** > **Call** > **Call waiting** (network service).

To answer the waiting call, press . The first call is put on hold.

To switch between the two calls, select **Swap**. To connect an incoming call or a call on hold with an active call and to disconnect yourself from the calls, select **Options** > **Transfer**. To end the active call, press . To end both calls, select **Options** > **End all calls**.

Log

To monitor the phone numbers of missed, received, and dialled voice calls, press , and select **Tools** > **Log** > **Recent calls**. The device registers missed and received calls only if the network supports these functions, the device is switched on, and within the network service area.

To clear all recent call lists, select **Options** > **Clear recent calls** in the recent calls main view. To clear one of the call registers, open the register you want to erase, and select **Options** > **Clear list**. To clear an individual event, open a register, scroll to the event, and press .

Call duration

To monitor the approximate duration of your incoming and outgoing calls, press , and select **Tools** > **Log** > **Call duration**.

Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding off for billing, and so forth.

To clear call duration timers, select **Options** > **Clear timers**. For this you need the lock code. See "Phone and SIM card", on page 111.

Packet data

To check the amount of data sent and received during packet data connections, press , and select **Tools** > **Log** > **Packet data**. For example, you may be charged for your packet data connections by the amount of data sent and received.

Monitor all communication events

Icons in **Log** are as follows:

Incoming

Outgoing

Missed communication events

To monitor all voice calls, text messages, or data and wireless LAN connections registered by the device, press , select **Tools** > **Log**, and press to open the general log.

Subevents, such as a text message sent in more than one part and packet data connections, are logged as one communication event. Connections to your mailbox, multimedia messaging center, or web pages are shown as packet data connections.

To add an unknown phone number from **Log** to your contacts, select **Options** > **Save to Contacts**.

To filter the log, select **Options** > **Filter** and a filter.

To erase the contents of the log, recent calls register, and messaging delivery reports permanently, select **Options** > **Clear log**. Select **Yes** to confirm. To remove a single event from the log, press C.

To set the log duration, select **Options** > **Settings** > **Log duration**. If you select **No log**, all the log contents, recent calls register, and messaging delivery reports are permanently deleted.

Tip! In the details view, you can copy a phone number to the clipboard, and paste it to a text message, for example. Select **Options** > **Copy number**.

To view from the packet data counter how much data is transferred and how long a certain packet data connection lasts, scroll to an incoming or outgoing event indicated by **Pack.**, and select **Options** > **View details**.

Contacts (Phonebook)

Press , and select **Contacts**. In **Contacts** you can save and update contact information, such as phone numbers, home addresses, or e-mail addresses of your contacts. You can add a personal ringing tone or a thumbnail image to a contact card. You can also create contact groups, which allow you to send text messages or e-mail to many recipients at the same time. You can add received contact information (business cards) to contacts. See "Data and settings", on page 80. Contact information can only be sent to or received from compatible devices.

To view the amount of contacts, groups, and the available memory in **Contacts**, select **Options** > **Contacts info**.

Save and edit names and numbers

1 Select **Options** > **New contact**.
2 Fill in the fields that you want, and select **Done**.

To edit contact cards in **Contacts**, scroll to the contact card you want to edit, and select **Options** > **Edit**. You can also search for the desired contact by entering the first letters of the name to the search field. A list of the contacts starting with the letters appear on the display.

Tip! To add and edit contact cards, you can also use Nokia Contacts Editor available in Nokia Nseries PC Suite.

To attach a small thumbnail image to a contact card, open the contact card, and select **Options** > **Edit** > **Options** > **Add thumbnail**. The thumbnail image is shown when the contact calls.

To listen to the voice tag assigned to the contact, select a contact card and **Options** > **Play voice tag**. See "Voice dialling", on page 90.

To send contact information, select the card you want to send and **Options** > **Send business card** > **Via text message**, **Via multimedia**, **Via Bluetooth**, or **Via infrared**. See "Messaging", on page 77 and "Send data using Bluetooth connectivity", on page 20.

Tip! To print contact cards on a compatible Basic Print Profile (BPP) equipped printer with Bluetooth connectivity (such as HP Deskjet 450 Mobile Printer or HP Photosmart 8150), select **Options** > **Print**.

To add a contact to a group, select **Options** > **Add to group:** (shown only if you have created a group). See "Create contact groups", on page 99.

To check to which groups a contact belongs, select the contact and **Options** > **Belongs to groups**.

To delete a contact card in **Contacts**, select a card, and press C. To delete several contact cards at the same time, press ✎ and ◙ to mark the contacts, and press C to delete.

Default numbers and addresses

You can assign default numbers or addresses to a contact card. In this way if a contact has several numbers or addresses, you can easily call or send a message to the contact to a certain number or address. The default number is also used in voice dialling.

1. In **Contacts**, select a contact.
2. Select **Options** > **Defaults**.
3. Select a default to which you want to add a number or an address, and select **Assign**.
4. Select a number or an address you want to set as a default.

The default number or address is underlined in the contact card.

Copy contacts

To copy names and numbers from a SIM card to your device, press , and select **Contacts** > **Options** > **SIM contacts** > **SIM directory**, the names you want to copy and **Options** > **Copy to Contacts**.

To copy contacts to your SIM card, in **Contacts**, select the names you want to copy and **Options** > **Copy to SIM directory**, or **Options** > **Copy** > **To SIM directory**. Only the contact card fields supported by your SIM card are copied.

Tip! You can synchronise your contacts to a compatible PC with Nokia Nseries PC Suite.

SIM directory and other SIM services

For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider or other vendor.

Press , and select **Contacts** > **Options** > **SIM contacts** > **SIM directory** to see the names and numbers stored on the SIM card. In the SIM directory you can add, edit, or copy numbers to contacts, and you can make calls.

To view the list of fixed dialling numbers, select **Options** > **SIM contacts** > **Fixed dial contacts**. This setting is only shown if supported by your SIM card.

To restrict calls from your device to selected phone numbers, select **Options** > **Activate fixed dialling**. You need your PIN2 code to activate and deactivate fixed dialling or edit your fixed dialling contacts. Contact your service provider if you do not have the code. To add new numbers to the fixed dialling list, select **Options** > **New SIM contact**. You need the PIN2 code for these functions.

When you use **Fixed dialling**, packet data connections are not possible, except when sending text messages over a packet data connection. In this case, the message center number and the recipient's phone number must be included on the fixed dialling list.

When fixed dialling is activated, calls may be possible to the official emergency number programmed into your device.

Add ringing tones for contacts

To define a ringing tone for a contact or a contact group, do the following:

1. Press ◉ to open a contact card or go to the groups list, and select a contact group.
2. Select **Options** > **Ringing tone**. A list of ringing tones opens.
3. Select the ringing tone you want to use for the individual contact or the selected group. You can also use a video clip as a ringing tone.

When a contact or group member calls you, the device plays the chosen ringing tone (if the caller's telephone number is sent with the call and your device recognises it).

To remove the ringing tone, select **Default tone** from the list of ringing tones.

Create contact groups

1. In **Contacts**, press ◉▸ to open the groups list.
2. Select **Options** > **New group**.
3. Write a name for the group or use the default name **Group** , and select **OK**.
4. Select the group, and **Options** > **Add members**.
5. Scroll to a contact, and press ◉ to mark it. To add multiple members at a time, repeat this action on all the contacts you want to add.
6. Select **OK** to add the contacts to the group.

To rename a group, select **Options** > **Rename**, enter the new name, and select **OK**.

Remove members from a group

1. In the groups list, select the group you want to modify.
2. Scroll to the contact, and select **Options** > **Remove from group**.
3. Select **Yes** to remove the contact from the group.

Office

Quickoffice

With Quickoffice, you can view .doc, .xls, .ppt, and .txt documents. All file formats or features are not supported. Apple Macintosh is not supported.

To use the Quickoffice applications, press , and select **Applications** > **Office** > **Quickoffice**. A list of files in the .doc, .xls, .ppt, and .txt file formats saved on your device and on a compatible memory card (if inserted) opens.

To open **Quickword**, **Quicksheet**, **Quickpoint**, or **Quickmanager**, press to reach the desired view.

Quickword

With **Quickword**, you can view native Microsoft Word documents with your device.

Quickword supports the viewing of documents saved in .doc and .txt formats created with Microsoft Word 97, 2000, XP, and 2003. Not all variations or features of the mentioned file formats are supported.

To open a document, press , and select **Applications** > **Office** > **Quickoffice** > **Quickword** and the document.

To upgrade to a version of Quickword that supports editing, open a document and select **Options** > **Upgrade to edit**. The upgrade is chargeable.

See also "More information", on page 101.

Quicksheet

With **Quicksheet**, you can view native Microsoft Excel files with your device.

Quicksheet supports the viewing of spreadsheet files saved in .xls format created with Microsoft Excel 97, 2000, XP, or 2003. Not all variations or features of the mentioned file formats are supported.

To open a spreadsheet, press , and select **Applications** > **Office** > **Quickoffice** > **Quicksheet** and the spreadsheet.

To upgrade to a version of Quicksheet that supports editing, open a spreadsheet and select **Options** > **Upgrade to edit**. The upgrade is chargeable.

See also "More information", on page 101.

Quickpoint

With **Quickpoint**, you can view native Microsoft PowerPoint presentations with your device.

Quickpoint supports the viewing of presentations saved in .ppt format created with Microsoft PowerPoint 2000, XP, and 2003. Not all variations or features of the mentioned file formats are supported.

To open a presentation, press , and select **Applications** > **Office** > **Quickoffice** > **Quickpoint** and the presentation.

To upgrade to a version of Quickpoint that supports editing, open a presentation and select **Options** > **Upgrade to edit**. The upgrade is chargeable.

See also "More information", on page 101.

Quickmanager

With Quickmanager, you can download software, including updates, upgrades, and other useful applications. You can pay for the downloads by phone bill or credit card.

To upgrade your Quickword, Quicksheet, or Quickpoint to a version that supports editing, you need to buy a license.

To open **Quickmanager**, press , and select **Applications** > **Office** > **Quickoffice** > **Quickmanager**.

More information

If you experience problems with **Quickword**, **Quicksheet**, **Quickpoint**, or **Quickmanager**, visit www.quickoffice.com for more information. Support is also available by sending an e-mail to supportS60@quickoffice.com.

Notes

To write notes in .txt format, press , and select **Applications** > **Office** > **Notes**.

Recorder

To record voice memos, press , and select **Applications** > **Media** > **Recorder**. To record a telephone conversation, open **Recorder** during a voice call. Both parties hear a tone every 5 seconds during recording.

Adobe Reader

With Adobe Reader, you can read .pdf documents on the display of your device.

This application has been optimized for .pdf document content on handsets and other mobile devices, and provides only a limited set of features compared with PC versions.

To open documents, press , and select **Applications** > **Office** > **Adobe PDF**. Your recent files are listed in the file view. To open a document, scroll to it, and press .

Use **File mgr.** to browse and open documents stored in the device memory and on a compatible memory card (if inserted).

More information

For more information, visit www.adobe.com.

To share questions, suggestions, and information about the application, visit the Adobe Reader for Symbian OS user forum at http://adobe.com/support/forums/main.html.

Calculator

Press , and select **Applications** > **Calculator**.

Note: This calculator has limited accuracy and is designed for simple calculations.

Converter

To convert measures from one unit to another, press , and select **Applications** > **Office** > **Converter**.

Converter has limited accuracy, and rounding errors may occur.

1. In the **Type** field, select the measure you want to use.
2. In first **Unit** field, select the unit from which you want to convert. In the next **Unit** field, select the unit to which you want to convert.
3. In the first **Amount** field, enter the value you want to convert. The other **Amount** field changes automatically to show the converted value.

Set base currency and exchange rates

Select **Type** > **Currency** > **Options** > **Currency rates**. Before you can make currency conversions, you must select a base currency and add exchange rates. The rate of the base currency is always 1.

Note: When you change base currency, you must enter new exchange rates because all previously set exchange rates are cleared.

Zip manager

Use the **Zip manager** application to compress files. Compressed files use less memory and are more convenient to send to compatible devices.

To open the application, press , and select **Applications** > **Office** > **Zip**.

To create or manage archives or to change the settings, select **Options** and the desired option.

You can store archive files on the device or on a compatible memory card.

Wireless Keyboard

To set up a Nokia Wireless Keyboard or other compatible wireless keyboard supporting the Bluetooth Human Interface Devices (HID) profile for use with your device, use the **Wireless keybd.** application. The keyboard enables you to enter text in comfort, using the full QWERTY layout, for text messages, e-mail, and calendar entries.

1. Activate Bluetooth connectivity on your device.
2. Switch on the keyboard.
3. Press , and select **Tools** > **Connectivity** > **Wireless keybd.**.
4. Select **Options** > **Find keyboard** to start searching for devices with Bluetooth connectivity.
5. Select the keyboard from the list, and press to start the connection.
6. To pair the keyboard with your device, enter a passcode of your choice (1 to 9 digits) on the device and the same passcode on your keyboard.
   To enter the digits of the passcode, you may need to press the **Fn** key first.
7. If you are asked for a keyboard layout, select it from a list on your device.
8. When the name of the keyboard appears, its status changes to **Keyboard connected**, and the green indicator of your keyboard blinks slowly; the keyboard is ready for use.

For details on the operation and maintenance of your keyboard, see its user guide.

Barcode reader

Use the **Barcode** application to decode different types of codes (such as barcodes and codes in magazines). The codes may contain information such as URL links, e-mail addresses, and phone numbers.

To scan and decode barcodes, press , and select **Applications** > **Office** > **Barcode**.

To activate the main camera to scan a code, open the lens cover by using the camera activation switch. To scan the code, select **Scan code**. Set the code between the red lines on the display. The **Barcode** attempts to scan and decode the code, and the decoded information appears on the display.

To save the scanned data, select **Options** > **Save**. The data is saved in .bcr format.

To view previously saved, decoded information in the main view, select **Saved data**. To open a code, press .

When viewing the decoded information, the different links, URL links, phone numbers, and e-mail addresses are indicated by icons on the top of the display in the direction they appear in the decoded information.

In the **Saved data** view, select **Options** and you can scan new codes or use the decoded information.

The device reverts to the standby mode to save battery power if **Barcode** cannot be activated or if no keys are pressed for 1 minute. To continue scanning or viewing saved information, press ◉.

Tools

Application manager

Press , and select **Applications** > **App. mgr.**. You can install two types of applications and software to your device:

- J2ME™ applications based on Java™ technology with the extension .jad or .jar ( ).
- Other applications and software suitable for the Symbian operating system ( ). The installation files have the .sis extension. Only install software specifically designed for your Nokia N95. Software providers will often refer to the official model number of this product: the Nokia N95-1.

Installation files may be transferred to your device from a compatible computer, downloaded during browsing, or sent to you in a multimedia message, as an e-mail attachment, or using Bluetooth connectivity or infrared. You can use Nokia Application Installer in Nokia Nseries PC Suite to install an application to your device. If you use Microsoft Windows Explorer to transfer a file, save the file to a compatible memory card (local disk).

Install applications and software

 indicates a .sis application, a Java application, that the application is not fully installed, and that the application is installed on the memory card.

Important: Only install and use applications and other software from trusted sources, such as applications that are Symbian Signed or have passed the Java Verified™ testing.

Before installation, note the following:

- To view the application type, version number, and the supplier or manufacturer of the application, select **Options** > **View details**.
  To display the security certificate details of the application, in **Certificates**, select **View details**. See "Certificate management", on page 112.
- If you install a file that contains an update or repair to an existing application, you can only restore the original application if you have the original installation file or a full back-up copy of the removed software package. To restore the original application, remove the application, and install the application again from the original installation file or the back-up copy.

- The .jar file is required for installing Java applications. If it is missing, the device may ask you to download it. If there is no access point defined for the application, you are asked to select one. When you are downloading the .jar file, you may need to enter a user name and password to access the server. You obtain these from the supplier or manufacturer of the application.

1. To locate an installation file, press , and select **Applications** > **App. mgr.**. Alternatively, search the device memory or a compatible memory card (if inserted) in **File mgr.**, or open a message in **Messaging** > **Inbox** that contains an installation file.
2. In **App. mgr.**, select **Options** > **Install**. In other applications, scroll to the installation file, and press to start the installation.
   During installation, the device shows information about the progress of the installation. If you are installing an application without a digital signature or certification, the device displays a warning. Continue installation only if you are sure of the origin and contents of the application.

To start an installed application, locate it in the menu, and press . If the application does not have a default folder defined, it is installed in the **Applications** folder.

To see which software packages are installed or removed and when, select **Options** > **View log**.

Important: Your device can only support one antivirus application. Having more than one application with antivirus functionality could affect performance and operation or cause the device to stop functioning.

After you install applications to a compatible memory card, installation files (.sis) remain in the device memory. The files may use large amounts of memory and prevent you from storing other files. To maintain sufficient memory, use Nokia Nseries PC Suite to back up installation files to a compatible PC, then use the file manager to remove the installation files from the device memory. See "File manager", on page 8. If the .sis file is a message attachment, delete the message from the Messaging inbox.

Remove applications and software

Scroll to a software package, and select **Options** > **Remove**. Select **Yes** to confirm.

If you remove software, you can only reinstall it if you have the original software package or a full backup of the removed software package. If you remove a software package, you may no longer be able to open documents created with that software.

If another software package depends on the software package that you removed, the other software package may stop working. Refer to the documentation of the installed software package for details.

Settings

Select **Options** > **Settings** and from the following:

Software installation — Select whether Symbian software that has no verified digital signature can be installed.

Online certificate check — Select to check the online certificates before installing an application.

Default web address — Set the default address used when checking online certificates.

Some Java applications may require a message to be sent or a network connection to a specific access point for downloading extra data or components. In the **App. mgr.** main view, scroll to an application, and select **Options** > **Open** to change settings related to that specific application.

Digital rights management

Content owners may use different types of digital rights management (DRM) technologies to protect their intellectual property, including copyrights. This device uses various types of DRM software to access DRM-protected content. With this device you can access content protected with WMDRM 10, OMA DRM 1.0, and OMA DRM 2.0. If certain DRM software fails to protect the content, content owners may ask that such DRM software's ability to access new DRM-protected content be revoked. Revocation may also prevent renewal of such DRM-protected content already in your device. Revocation of such DRM software does not affect the use of content protected with other types of DRM or the use of non-DRM-protected content.

Digital rights management (DRM) protected content comes with an associated activation key that defines your rights to use the content.

If your device has OMA DRM protected content, to back up both the activation keys and the content, use the backup feature of Nokia Nseries PC Suite. Other transfer methods may not transfer the activation keys which need to be restored with the content for you to be able to continue the use of OMA DRM protected content after the device memory is formatted. You may also need to restore the activation keys in case the files on your device get corrupted.

If your device has WMDRM protected content, both the activation keys and the content will be lost if the device memory is formatted. You may also lose the activation keys and the content in case the files on your device get corrupted. Losing the activation keys or the content may

limit your ability to use the same content on your device again. For more information, contact your service provider.

Some activation keys may be connected to a specific SIM card, and the protected content can be accessed only if the SIM card is inserted in the device.

To view the digital rights activation keys stored in your device, press , and select **Applications** > **Media** > **Actv. keys** and from the following:

Valid keys — View keys that are connected to one or more media files and keys whose validity period has not started yet.

Invalid keys — View keys that are not valid; the time period for using the media file is exceeded or there is a protected media file in the device but no connected activation key.

Not in use — View keys that have no media files connected to them in the device.

To buy more usage time or extend the usage period for a media file, select an invalid activation key and **Options** > **Get new key**. Activation keys cannot be updated if web service message reception is disabled. See "Web service messages", on page 80.

To view detailed information, such as the validity status and ability to send the file, scroll to an activation key, and press .

Voice commands

You can use voice commands to control your device. For more information about the enhanced voice commands supported by your device, see "Voice dialling", on page 90.

To activate enhanced voice commands for starting applications and profiles, you must open the **Voice comm.** application and its **Profiles** folder. Press , and select **Tools** > **Voice comm.** > **Profiles**; the device creates voice tags for the applications and profiles. To use enhanced voice commands, press and hold in the standby mode, and say a voice command. The voice command is the name of the application or profile displayed in the list.

To add more applications to the list, select **Options** > **New application**. To add a second voice command that can be used to start the application, select **Options** > **Change command**, and enter the new voice command as text. Avoid very short names, abbreviations, and acronyms.

To listen to the synthesised voice tag, select **Options** > **Playback**.

To change voice command settings, select **Options** > **Settings**. To switch off the synthesiser that plays recognised voice tags and commands in the selected device language, select **Synthesiser** > **Off**. To reset voice recognition learning, for example, when the main user of the device has changed, select **Remove voice adapts.**.

Settings

To change settings, press , and select **Tools** > **Settings**. Scroll to **General**, **Phone**, **Connection**, or **Applications**, and press . Scroll to a setting or setting group you want to change, and press .

Some settings may be preset for the device by your service provider, and you may not be able to change them.

General

To edit the general settings of your device or restore the original default device settings, press , and select **Tools** > **Settings** > **General** > **Personalisation**, **Date and time**, **Enhancement**, **Security**, **Factory settings**, or **Positioning**.

For **Date and time**, see "Clock", on page 75.

Personalisation

To edit settings related to the display, standby mode, and general functionality of your device, press , and select **Tools** > **Settings** > **General** > **Personalisation**.

Tones allows you to change the tones of calendar, clock, and the currently active profile.

Themes opens the **Themes** application. See "Change the look of your device", on page 73.

Voice comms. opens the settings for the **Voice comm.** application. See "Voice commands", on page 108.

Display

Light sensor — Press or to adjust the light sensor that observes the lighting conditions and adjusts the brightness of the display. The light sensor may cause the display to flicker in low light.

Font size — Adjust the size of the text and icons on the display.

Power saver time-out — Select the time-out period after which the power saver is activated.

Welcome note / logo — The welcome note or logo is displayed briefly each time you switch on the device. Select **Default** to use the default image, **Text** to write a welcome note, or **Image** to select an image from **Gallery**.

Light time-out — Select a time-out after which the backlight of the display is switched off.

Standby mode

Active standby — Use shortcuts to applications in the standby mode. See "Active standby mode", on page 74.

Active standby apps. — Select the application shortcuts you want to appear in the active standby. This setting is only available if **Active standby** is on.

Shortcuts > **Left selection key** and **Right selection key** — Assign a shortcut to the selection keys in the standby mode.

You can also assign keypad shortcuts for the different presses of the scroll key. The scroll key shortcuts are not available if the active standby is on.

Operator logo — This setting is only available if you have received and saved an operator logo. Select **Off** if you do not want the logo to be shown.

Language

Phone language — Changing the language of the display texts in your device also affects the format used for date and time and the separators used, for example, in calculations. **Automatic** selects the language according to the information on your SIM card. After you change the display text language, the device restarts.

Changing the settings for **Phone language** or **Writing language** affects every application in your device, and the change remains effective until you change these settings again.

Writing language — Changing the language affects the characters and special characters available when writing text and the predictive text dictionary used.

Predictive text — Set the predictive text input **On** or **Off** for all editors in the device. The predictive text dictionary is not available for all languages.

Enhancement

For enhancement indicators, see "Essential indicators", on page 3. Some enhancement connectors do not indicate which type of an enhancement is connected to the device.

The available settings depend on the type of enhancement. Select an enhancement and from the following:

Default profile — Set the profile that you want activated each time you connect a certain compatible enhancement to your device. See "Profiles — set tones", on page 71.

Automatic answer — Set if you want the device to answer an incoming call automatically after 5 seconds. If the ringing type is set to **Beep once** or **Silent**, automatic answer is disabled.

Lights — Set whether lights remain on, or are switched off after the time-out. This setting is not available for all enhancements.

To change the settings for a TV-Out connection, select **TV-Out** and from the following:

Default profile — Set the profile that you want activated each time you connect a Nokia Video Connectivity Cable to your device.

TV screen size — Select the aspect ratio of the TV: **Normal** or **Widescreen** for widescreen TVs.

Tv system — Select the analog video signal system that is compatible with your TV.

Flicker filter — To improve image quality on the screen of your TV, select **On**. The flicker filter may not diminish image flicker on all TV screens.

Security

To edit settings related to the security, press , and select **Tools** > **Settings** > **General** > **Security** > **Phone and SIM card**, **Certificate management**, or **Security module**.

Phone and SIM card

PIN code request — When active, the code is requested each time the device is switched on. Deactivating the personal identification number (PIN) code request may not be allowed by some SIM cards.

PIN code, **PIN2 code**, and **Lock code** — You can change the lock code, PIN code, and PIN2 code. These codes can only include the numbers from **0** to **9**. If you forget any of these codes, contact your service provider. See "Glossary of PIN and lock codes", on page 112.

Avoid using access codes similar to the emergency numbers to prevent accidental dialling of the emergency number.

Keypad autolock period — Select whether the keypad is locked when your device has been idle for a certain period of time.

Phone autolock period — To avoid unauthorised use, you can set a time-out after which the device automatically locks. A locked device cannot be used until the correct lock code is entered. To turn off the autolock period, select **None**.

See "Glossary of PIN and lock codes", on page 112.

When the device is locked, calls may be possible to the official emergency number programmed into your device.

Tip! To lock the device manually, press . A list of commands opens. Select **Lock phone**.

Lock keys if slide closed — Select whether the keypad is locked when you close the 2-way slide.

Tip! To lock or unlock the keypad manually, press , then .

Lock if SIM card changed — You can set the device to ask for the lock code when an unknown SIM card is inserted into your device. The device maintains a list of SIM cards that are recognised as the owner's cards.

Closed user group — You can specify a group of people to whom you can call and who can call you (network service).

When calls are limited to closed user groups, calls may be possible to the official emergency number programmed into your device.

Confirm SIM services — You can set the device to display confirmation messages when you are using a SIM card service (network service).

Glossary of PIN and lock codes

If you forget any of these codes, contact your service provider.

Personal identification number (PIN) code — This code protects your SIM card against unauthorised use. The PIN code (4 to 8 digits) is usually supplied with the SIM card. After three consecutive incorrect PIN code entries, the code is blocked, and you need the PUK code to unblock it.

UPIN code — This code may be supplied with the USIM card. The USIM card is an enhanced version of the SIM card and is supported by UMTS mobile phones.

PIN2 code — This code (4 to 8 digits) is supplied with some SIM cards, and is required to access some functions in your device.

Lock code (also known as security code) — This code (5 digits) can be used to lock the device to avoid unauthorised use. The factory setting for the lock code is **12345**. To avoid unauthorised use of your device, change the lock code. Keep the new code secret and in a safe place separate from your device. If you forget the code, contact Nokia Care Center.

Personal unblocking key (PUK) code and PUK2 code — These codes (8 digits) are required to change a blocked PIN code or PIN2 code, respectively. If the codes are not supplied with the SIM card, contact the operator whose SIM card is in your device.

UPUK code — This code (8 digits) is required to change a blocked UPIN code. If the code is not supplied with the USIM card, contact the operator whose USIM card is in your device.

Certificate management

Digital certificates do not guarantee safety; they are used to verify the origin of software.

In the certificate management main view, you can see a list of authority certificates that are stored in your device. Press to see a list of personal certificates, if available.

Digital certificates should be used if you want to connect to an online bank or another site or remote server for actions that involve transferring confidential information. They should also be used if you want to reduce the risk of viruses or other malicious software and be sure of the authenticity of software when downloading and installing software.

Important: Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available. Certificates have a restricted lifetime. If "Expired certificate" or "Certificate not valid yet" is shown even if the certificate should be valid, check that the current date and time in your device are correct.

Before changing any certificate settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

View certificate details — check authenticity

You can only be sure of the correct identity of a server when the signature and the period of validity of a server certificate have been checked.

You are notified if the identity of the server is not authentic or if you do not have the correct security certificate in your device.

To check certificate details, scroll to a certificate, and select **Options** > **Certificate details**. When you open certificate details, the validity of the certificate is checked, and one of the following notes may be displayed:

- **Certificate not trusted** — You have not set any application to use the certificate. See "Change the trust settings", on page 113.
- **Expired certificate** — The period of validity has ended for the selected certificate.
- **Certificate not valid yet** — The period of validity has not yet begun for the selected certificate.
- **Certificate corrupted** — The certificate cannot be used. Contact the certificate issuer.

Change the trust settings

Before changing any certificate settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

Scroll to an authority certificate, and select **Options** > **Trust settings**. Depending on the certificate, a list of the applications that can use the selected certificate is shown. For example:

- **Symbian installation**: **Yes** — The certificate is able to certify the origin of a new Symbian operating system application.
- **Internet**: **Yes** — The certificate is able to certify servers.
- **App. installation**: **Yes** — The certificate is able to certify the origin of a new Java™ application.

Select **Options** > **Edit trust setting** to change the value.

Security module

To view or edit a security module (if available) in **Security module**, scroll to it, and press the scroll key. To view detailed information about a security module, scroll to it, and select **Options** > **Security details**.

Factory settings

To reset some of the settings to their original values, select **Factory settings**. To do this, you need the lock code. See "Phone and SIM card", on page 111. After resetting, the device may take a longer time to power on. Documents and files are unaffected.

Positioning

Positioning methods — Select the positioning methods used to detect the location of your device: the internal GPS receiver of your device, **Bluetooth GPS** to use a compatible external GPS receiver with Bluetooth connectivity, and **Network based** to use information from the cellular network (network service). The location information can be used by compatible applications in your device.

Phone



To edit the settings related to making and receiving calls, press , and select **Tools** > **Settings** > **Phone** > **Call**, **Call divert**, **Call barring**, or **Network**.

Call

Send my caller ID — You can set your phone number to be displayed to (**Yes**) or hidden from (**No**) the person to whom you are calling, or the value may be set by your service provider when you make a subscription (**Set by network**) (network service).

Call waiting — If you have activated call waiting (network service), the network notifies you of a new incoming call while you have a call in progress. Set the function on (**Activate**) or off (**Cancel**), or check whether the function is activated (**Check status**).

Reject call with SMS — Select **Yes** to send a text message to a caller informing why you could not answer the call. See "Answer or decline a call", on page 94.

Message text — Write a text to be sent in a text message when you reject a call.

Image in video call — If video is not sent during a video call, you can select a still image to be displayed instead.

Automatic redial — Select **On**, and your device makes a maximum of 10 attempts to connect the call after an unsuccessful call attempt. To stop automatic redialling, press .

Show call duration — Activate this setting if you want the length of a call to be displayed during the call.

Speed dialling — Select **On**, and the numbers assigned to the speed dialling keys (2 — 9) can be dialled by pressing and holding the key. See also "Speed dial a phone number", on page 89.

Anykey answer — Select **On**, and you can answer an incoming call by briefly pressing any keypad key, except , , , and .

Line in use — This setting (network service) is shown only if the SIM card supports two subscriber numbers, that is, two phone lines. Select which phone line you want to use for making calls and sending text messages. Calls on both lines can be answered irrespective of the selected line. If you select **Line 2** and have not subscribed to this network service, you will not be able to make calls. When line 2 is selected, **2** is shown in the standby mode.

Tip! To switch between the phone lines, press and hold # in the standby mode.

Line change — To prevent line selection (network service), select **Disable** if supported by your SIM card. To change this setting, you need the PIN2 code.

Call divert

Call divert allows you to divert your incoming calls to your voice mailbox or another phone number. For details, contact your service provider.

Select which calls you want to divert and the desired diverting option. To divert voice calls when your number is busy or when you reject incoming calls, select **If busy**. Set the option on (**Activate**) or off (**Cancel**), or check whether the option is activated (**Check status**).

Several diverting options can be active at the same time. When all calls are diverted, is shown in the standby mode.

Call barring and call diverting cannot be active at the same time.

Call barring

Call barring (network service) allows you to restrict the calls that you make or receive with the device. To change the settings, you need the barring password from your service provider.

Select the desired barring option, and set it on (**Activate**) or off (**Cancel**), or check whether the option is active (**Check status**). **Call barring** affects all calls, including data calls.

Call barring and call diverting cannot be active at the same time.

When calls are barred, calls may be possible to certain official emergency numbers.

Network

Your device can automatically switch between the GSM and UMTS networks. The GSM network is indicated with Ψ in the standby mode. The UMTS network is indicated with **3G**.

Network mode (shown only if supported by the wireless service provider) — Select which network to use. If you select **Dual mode**, the device uses the GSM or UMTS network automatically, according to the network parameters and the roaming agreements between the wireless service providers. Contact your service provider for more details.

Operator selection — Select **Automatic** to set the device to search for and select one of the available networks, or **Manual** to manually select the network from a list of networks. If the connection to the manually selected network is lost, the device sounds an error tone and asks you to reselect a network. The selected network must have a roaming agreement with your home cellular network.

Glossary: A roaming agreement is an agreement between two or more network service providers to enable the users of one service provider to use the services of other service providers.

Cell info display — Select **On** to set the device to indicate when it is used in a cellular network based on microcellular network (MCN) technology and to activate cell info reception.

Connection

To edit access point and other connection settings, press , and select **Tools** > **Settings** > **Connection** > **Bluetooth**, **USB**, **Access points**, **Packet data**, **Wireless LAN**, **SIP settings**, **Internet tel.**, **Configurations**, or **APN control**.

For Bluetooth connectivity settings, see "Settings", on page 19. For USB data cable settings, see "USB", on page 22.

Data connections and access points

Your device supports packet data connections (network service), such as GPRS in the GSM network. When you use your device in GSM and UMTS networks, multiple data connections can be active at the same time, and access points can share a data connection. In the UMTS network, data connections remain active during voice calls.

You can also use a wireless LAN data connection. See "Wireless LAN", on page 16. Only one connection in one wireless LAN can be active at a time, but several applications can use the same internet access point.

To establish a data connection, an access point is required. You can define different kinds of access points, such as:

- MMS access point to send and receive multimedia messages
- Internet access point (IAP) to send and receive e-mail and connect to the internet

Check the type of access point you need with your service provider for the service you want to access. For availability and subscription to packet data connection services, contact your service provider.

Access points

You may receive access point settings in a message from a service provider. See "Data and settings", on page 80. Some or all access points may be preset for your device by your service provider, and you may not be able to change, create, edit, or remove them. 🔒 indicates a protected access point.

⇄ indicates a packet data access point, and ⊞ a wireless LAN access point.

Tip! You can create internet access points in a wireless LAN with the WLAN wizard. See "WLAN wizard", on page 17.

To create a new access point, select **Options** > **New access point**.

To edit the settings of an access point, select **Options** > **Edit**. Follow the instructions from your service provider.

Connection name — Enter a descriptive name for the connection.

Data bearer — Select the data connection type.

Depending on the data connection you select, only certain setting fields are available. Fill in all fields marked with **Must be defined** or with a red asterisk. Other fields can be left empty, unless you have been instructed otherwise by your service provider.

To be able to use a data connection, the network service provider must support this feature, and if necessary, activate it for your SIM card.

Packet data access points

Follow the instructions from your service provider.

Access point name — You obtain the access point name from your service provider.

User name — The user name may be needed to make a data connection, and is usually provided by the service provider.

Prompt password — If you must enter the password every time you log in to a server, or if you do not want to save your password in the device, select **Yes**.

Password — A password may be needed to make a data connection, and is usually provided by the service provider.

Authentication — Select **Normal** or **Secure**.

Homepage — Depending on the access point you are setting up, enter the web address or the address of the multimedia messaging center.

Select **Options** > **Advanced settings** to change the following settings:

Network type — Select the internet protocol type to use: **IPv4** or **IPv6**. The other settings depend on the selected network type.

Phone IP address (for IPv4 only) — Enter the IP address of your device.

DNS address — In **Primary DNS address**, enter the IP address of the primary DNS server. In **Secondary DNS address**, enter the IP address of the secondary DNS server. Contact your internet service provider to obtain these addresses.

Proxy server address — Define the address for the proxy server.

Proxy port number — Enter the proxy port number.

Wireless LAN access points

Follow the instructions from the wireless LAN service provider.

WLAN network name — Select **Enter manually** or **Search for networks**. If you select an existing network, **WLAN network mode** and **WLAN security mode** are determined by the settings of its access point device.

Network status — Defines whether the network name is shown.

WLAN network mode — Select **Ad-hoc** to create an ad hoc network and to allow devices to send and receive data directly; a wireless LAN access point device is not needed. In an ad-hoc network, all devices must use the same **WLAN network name**.

WLAN security mode — Select the encryption used: **WEP**, **802.1x** (not for ad hoc networks), or **WPA/WPA2**. If you select **Open network**, no encryption is used. The WEP, 802.1x, and WPA functions can be used only if the network supports them.

WLAN security settings — Enter the settings for the selected security mode:

Security settings for **WEP**:

- **Wep key in use** — Select the WEP key number. You can create up to four WEP keys. The same settings must be entered on the wireless LAN access point device.
- **Authentication type** — Select **Open** or **Shared** for the authentication type between your device and the wireless LAN access point device.
- **WEP key settings** — Enter **WEP encryption** (length of the key), **WEP key format** (**ASCII** or **Hexadecimal**), and **WEP key** (the WEP key data in the selected format).

Security settings for **802.1x** and **WPA/WPA2**:

- **WPA/WPA2** — Select the means of authentication: **EAP** to use an extensible authentication protocol (EAP) plug-in, or **Pre-shared key** to use a password. Complete the appropriate settings:
- **EAP plug-in settings** (only for **EAP**) — Enter the settings as your service provider instructs.
- **Pre-shared key** (only for **Pre-shared key**) — Enter a password. The same password must be entered on the wireless LAN access point device.
- **WPA2 only mode** (only for **WPA/WPA2**) — Select whether Temporal Key Integrity Protocol (TKIP) is used.

Homepage — Define a home page.

Select **Options** > **Advanced settings** and from the following:

IPv4 settings: **Phone IP address** (the IP address of your device), **Subnet mask** (the subnet IP address), **Default gateway** (the gateway), and **DNS address**. Enter the IP addresses of the primary and secondary DNS server. Contact your internet service provider for these addresses.

IPv6 settings > **DNS address** — Select **Automatic**, **Well-known**, or **User defined**.

Ad-hoc channel (only for **Ad-hoc**) — To enter a channel number (1-11) manually, select **User defined**.

Proxy server address — Enter the address for the proxy server.

Proxy port number — Enter the proxy port number.

Packet data

The packet data settings affect all access points using a packet data connection.

Packet data connection — If you select **When available** and you are in a network that supports packet data, the device registers to the packet data network. Starting an active packet data connection (for example, to send and receive e-mail) is quicker. If there is no packet data coverage, the device periodically tries to establish a packet data connection. If you select **When needed**, the device uses a packet data connection only if you start an application or action that needs it.

Access point — The access point name is needed to use your device as a packet data modem to your computer.

High speed packet access — Enable or disable the use of HSDPA (network service) in UMTS networks. For more information on HSDPA, see "Fast downloading", on page 4.

Wireless LAN

Show WLAN availability — Select whether the icon is displayed when a wireless LAN is available.

Scan for networks — If you set **Show WLAN availability** to **Yes**, select how often the device searches for available wireless LANs and updates the indicator.

To view advanced settings, select **Options** > **Advanced settings**. Changing wireless LAN advanced settings is not recommended.

SIP settings

SIP (Session Initiation Protocol) settings are needed for certain network services using SIP, such as video sharing. You may receive the settings in a special text message from your service provider. You can view, delete, or create these setting profiles in **SIP settings**.

Internet call settings

To create a new internet call profile, select **Options** > **New profile**.

To edit an existing profile, select **Options** > **Edit**.

Configurations

You may receive trusted server settings from your service provider in a configuration message. You can save view or delete these settings in **Configurations**.

APN control

With **APN control** service, you can restrict packet data connections and allow your device to use only certain packet data access points.

This setting is only available if your SIM card supports the access point control service.

To set the control service on or off or to change the allowed access points, select **Options** and the corresponding option. To change the options, you need your PIN2 code. Contact your service provider for the code.

Applications 

To edit the settings of some of the applications in your device, press , and select **Tools** > **Settings** > **Applications**. The settings are also available in each application by selecting the settings option.

Troubleshooting: Q&A

Access codes

Q: What is my password for the lock, PIN, or PUK codes?

A: The default lock code is **12345**. If you forget or lose the lock code, contact your device dealer.
If you forget or lose a PIN or PUK code, or if you have not received such a code, contact your wireless service provider.
For information about passwords, contact your access point provider, for example, a commercial Internet service provider (ISP) or wireless service provider.

Application not responding

Q: How do I close an application that is not responding?

A: Press and hold the menu key. Scroll to the application, and press C to close the application.

Bluetooth connectivity

Q: Why can't I find my friend's device?

A: Check that both devices are compatible, have activated Bluetooth connectivity, and are not in hidden mode. Check also that the distance between the two devices is not over 10 meters (33 feet) and that there are no walls or other obstructions between the devices.

Q: Why can't I end a Bluetooth connection?

A: If another device is connected to your device, you can either end the connection using the other device or by deactivating Bluetooth connectivity. Select **Tools** > **Bluetooth** > **Bluetooth** > **Off**.

Camera

Q: Why do images look smudgy?

A: Ensure that the camera lens protection windows are clean.

Display

Q: Why do missing, discolored, or bright dots appear on the screen every time I turn on my device?

A: This is a characteristic of this type of display. Some displays may contain pixels or dots that remain on or off. This is normal, not a fault.

Home network (UPnP)

Q: Why can't the other device see the files stored on my device?

A: Make sure that you have configured the home network settings, **Content sharing** is turned on in your device, and the other device is UPnP compatible.

Q: What can I do if my home network connection stops working?

A: Switch off the wireless LAN connection from your compatible PC and your device, and switch it on again. If

this does not help, restart your compatible PC and your device. If the connection still does not work, reconfigure the WLAN settings in both your compatible PC and device. See "Wireless LAN", on page 16, and "Connection", on page 116.

Q: Why can't I see my compatible PC in my device in the home network?

A: If you are using a firewall application in your compatible PC, check that it allows Home media server to use the external connection (you can add Home media server to the firewall applications exceptions list). Check from the firewall settings that the firewall application allows traffic to the following ports: 1900, 49152, 49153 and 49154.
Some WLAN access point devices have a built-in firewall. In such cases, check that the firewall in the access point device does not block traffic to the following ports: 1900, 49152, 49153 and 49154.
Check that the WLAN settings are the same in your device and compatible PC.

Memory low

Q: What can I do if my device memory is low?

A: You can delete unused items saved in your device regularly to avoid memory getting low. See "Memory low — free memory", on page 8.
To delete contact information, calendar notes, call timers, call cost timers, game scores, or any other data, go to the respective application to remove the data. If you are deleting multiple items and one of the following notes are shown: **Not enough memory to perform operation. Delete some data first.** or **Memory low. Delete some data from phone memory.**, try deleting items one by one (starting from the smallest item).
To view what kind of data you have and how much memory the different data groups consume, press , and select **Tools** > **File manager** > **Options** > **Memory details**.

Q: How can I save my data before deleting it?

A: Save your data using one of the following methods:

- Use Nokia Nseries PC Suite to make a backup copy of all data to a compatible computer.
- Send images to your e-mail address, then save the images to your computer.
- Send data using Bluetooth connectivity to a compatible device.
- Store data on a compatible memory card.

Messaging

Q: Why can't I select a contact?

A: The contact card does not have a phone number or an e-mail address. Add the missing information to the contact card in **Contacts**.

Multimedia messaging

Q: The note **Retrieving message** is shown briefly. What is happening?

A: The device is trying to retrieve a multimedia message from the multimedia messaging center.
Check that the settings for multimedia messaging are

defined correctly and that there are no mistakes in phone numbers or addresses. Press , and select **Messaging** > **Options** > **Settings** > **Multimedia msg.**.

Q: How can I end the data connection when the device starts a data connection again and again?

A: To stop the device from making a data connection, press , and select **Messaging** > **Options** > **Settings** > **Multimedia message** > **Multimedia retrieval** and one of the following:
Manual — to have the multimedia messaging center save messages to be retrieved later. You receive a notification when there is a new multimedia message that you can retrieve in the multimedia message center.
Off — to ignore all incoming multimedia messages. After this change, the device does not make any network connections related to multimedia messaging.

PC connectivity

Q: Why do I have problems in connecting the device to my PC?

A: Make sure that Nokia Nseries PC Suite is installed and running on your PC. See the user guide for Nokia Nseries PC Suite on the CD-ROM or DVD-ROM. For further information on how to use Nokia Nseries PC Suite, see the help function on Nokia Nseries PC Suite or visit the support pages at www.nokia-asia.com.

Q: Can I use my device as a fax modem with a compatible PC?

A: You cannot use your device as a fax modem. However, with call diverting (network service), you can divert incoming fax calls to another phone number.

Wireless LAN

Q: Why can't I see a wireless LAN (WLAN) access point even though I know I'm within its range?

A: The WLAN access point may use a hidden service set identifier (SSID). You can only access networks that use a hidden SSID if you know the correct SSID, and have created a WLAN Internet access point for the network on your Nokia device.

Q: How do I switch wireless LAN (WLAN) off on my Nokia device?

A: The WLAN on your Nokia device will switch off when you are not trying to connect, or are not connected to another access point, or scanning for available networks. To further reduce battery consumption, you can specify that your Nokia device does not scan, or scans less often, for available networks in the background. WLAN will switch off in between background scans.

To change the background scan settings:

1. Press , and select **Tools** > **Settings** > **Connection** > **Wireless LAN**.
2. Change the value of **Show WLAN availability** to **Never** to stop background scans, or increase the background scan time interval in **Scan for networks**.
3. To save your changes, press **Back**.

When **Scan for networks** is set to **Never**, the WLAN availability icon will not be shown in the standby mode. However, you can still manually scan for available WLAN networks, and connect to WLAN networks as usual.

Battery information

Charging and discharging

Your device is powered by a rechargeable battery. The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, replace the battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

If a replacement battery is being used for the first time or if the battery has not been used for a prolonged period, it may be necessary to connect the charger, then disconnect and reconnect it to begin charging the battery.

Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

If the battery is completely discharged, it may take several minutes before the charging indicator appears on the display or before any calls can be made.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

Do not dismantle or shred cells or batteries. In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. In the event of such a leak, flush your skin or eyes immediately with water, or seek medical help.

Nokia battery authentication guidelines

Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery, purchase it from

an authorised Nokia dealer, and inspect the hologram label using the following steps:

Successful completion of the steps is not a total assurance of the authenticity of the battery. If you have any reason to believe that your battery is not an authentic, original Nokia battery, you should refrain from using it. If authenticity cannot be verified, return the battery to the place of purchase.

Authenticate hologram



1 When you look at the hologram on the label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.



2 When you angle the hologram left, right, down and up, you should see 1, 2, 3 and 4 dots on each side respectively.

What if your battery is not authentic?

If you cannot confirm that your Nokia battery with the hologram on the label is an authentic Nokia battery, please do not use the battery. The use of a battery that is not approved by the manufacturer may be dangerous and may result in poor performance and damage to your device and its enhancements. It may also invalidate any approval or warranty applying to the device.

To find out more about original Nokia batteries, visit www.nokia-asia.com/batterycheck.

Nokia original enhancements

An extensive range of enhancements is available for your phone. Please visit www.nokia-asia.com/enhancements for more details.

For availability of the enhancements, please check with your local dealer. A few practical rules for enhancements operation:

- Keep the enhancements out of small children's reach
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that all mobile phone equipment in a vehicle dismounted and operating properly.

Use only batteries, chargers and enhancements approved by the phone manufacturer. The use of any other types may invalidate any approval or warranty applying tithe phone, and may be dangerous.

Battery

Type	Talktime#	Standby#
BL-5F	up to 160 / 210 min (WCDMA / GSM)	up to 215 hours (WCDMA & GSM)

Variation in operation times may occur depending on SIM card, network and usage settings, usage style and environments.

Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery, and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses, such as camera, proximity sensor, and light sensor lenses.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.
- Use chargers indoors.
- Always create a backup of data you want to keep, such as contacts and calendar notes.
- To reset the device from time to time for optimum performance, power off the device and remove the battery.

These suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

Additional safety information

Small children

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

Operating environment

This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 1.5 centimeters (5/8 inches) away from the body. When a carry case, belt clip, or holder is used for body-worn operation, it should not contain metal and should position the device the above-stated distance from your body.

To transmit data files or messages, this device requires a quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure the above separation distance instructions are followed until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Implanted medical devices

Manufacturers of medical devices recommend that a minimum separation of 15.3 centimeters (6 inches) should be maintained between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device. Persons who have such devices should:

- Always keep the wireless device more than 15.3 centimeters (6 inches) from the medical device when the wireless device is turned on.
- Not carry the wireless device in a breast pocket.
- Hold the wireless device to the ear opposite the medical device to minimise the potential for interference.
- Turn the wireless device off immediately if there is any reason to suspect that interference is taking place.

- Read and follow the directions from the manufacturer of their implanted medical device.

If you have any questions about using your wireless device with an implanted medical device, consult your health care provider.

Hearing aids

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Warning: For hearing aid compatibility, you must turn off the Bluetooth connectivity.

Your mobile device model complies with FCC rules governing hearing aid compatibility. These rules require an M3 microphone or higher value. The M-value, shown on the device box , refers to lower radio frequency (RF) emissions. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others to interference. Please consult your hearing health professional to determine the M-rating of your hearing aid and whether your hearing aid will work with this device. More information on accessibility can be found at www.nokiaaccessibility.com.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added.

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere, and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting

in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust, or metal powders.

Emergency calls

Important: Wireless phones, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

To make an emergency call:

1. If the device is not on, switch it on. Check for adequate signal strength.
   Some networks may require that a valid SIM card is properly inserted in the device.
2. Press the end key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Press the call key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. If the device is in the offline or flight profile mode, you may need to change the profile to activate the phone function before you can make an emergency call. Consult this guide or your service provider for more information.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Certification information (SAR)

THIS MOBILE DEVICE MEETS GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over 10 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 0.58 W/kg.

Use of device accessories and enhancements may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia-asia.com.

* SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions, please look under product information at www.nokia.com.

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Nokia Care Online

The Nokia Care web support provides you with more information on our online services.

INTERACTIVE DEMONSTRATIONS

Learn how to set up your phone for the first time, and find out more about its features. Interactive Demonstrations give step-by-step instructions on using your phone.

USER'S GUIDE

The online User's Guide contains detailed information on your phone. Remember to check regularly for updates.

SOFTWARE

Make the most of your phone with software for your phone and PC. Nokia PC Suite connects your phone and PC so you can manage your calendar, contacts, music and images, while other applications complement its use.

SETTINGS

Certain phone functions, such as multimedia messaging, mobile browsing and email*, may require settings before you can use them. Have them sent to your phone free of charge.

*Not available on all phones.

HOW DO I USE MY PHONE?
The Set Up section, at www.nokia-asia.com/setup, helps you prepare your phone for use. Familiarise yourself with phone functions and features by referring to the Guides and Demos section at www.nokia-asia.com/guides.

HOW DO I SYNCHRONISE MY PHONE AND PC?
Connecting your phone to a compatible PC with the requisite Nokia PC Suite version from www.nokia-asia.com/pcsuite lets you synchronise your calendar and contacts.

WHERE CAN I GET SOFTWARE FOR MY PHONE?
Get more out of your phone with downloads from the Software section at www.nokia-asia.com/software.

WHERE CAN I FIND ANSWERS TO COMMON QUESTIONS?
Look up the FAQ section at www.nokia-asia.com/faq for answers to your questions on your phone and other Nokia products and services.

HOW DO I KEEP UP WITH NOKIA NEWS?
Subscribe online at www.nokia-asia.com/signup and be the first to know about the latest products and promotions. Sign up for "Nokia Connections" to receive monthly updates on latest phones and technology. Sign up for "Be The First To Know" to get exclusive previews of new phone announcements or subscribe to "Promotional Communications" for upcoming events.

Should you still require further assistance, please refer to www.nokia-asia.com/contactus.
For additional information on repair services, please visit www.nokia-asia.com/repair.

Please visit your own country site for more details:

Australia and New Zealand	**www.nokia.com.au/support**	**Malaysia**	**www.nokia.com.my/support**
India	**www.nokia.co.in/support**	**Philippines**	**www.nokia.com.ph/support**
Indonesia	**www.nokia.co.id/support**	**Singapore**	**www.nokia.com.sg/support**
Japan	**www.nokia.co.jp/support**	**Thailand**	**www.nokia.co.th/support**

If your country is not listed above, please visit **www.nokia-asia.com/support**.

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